

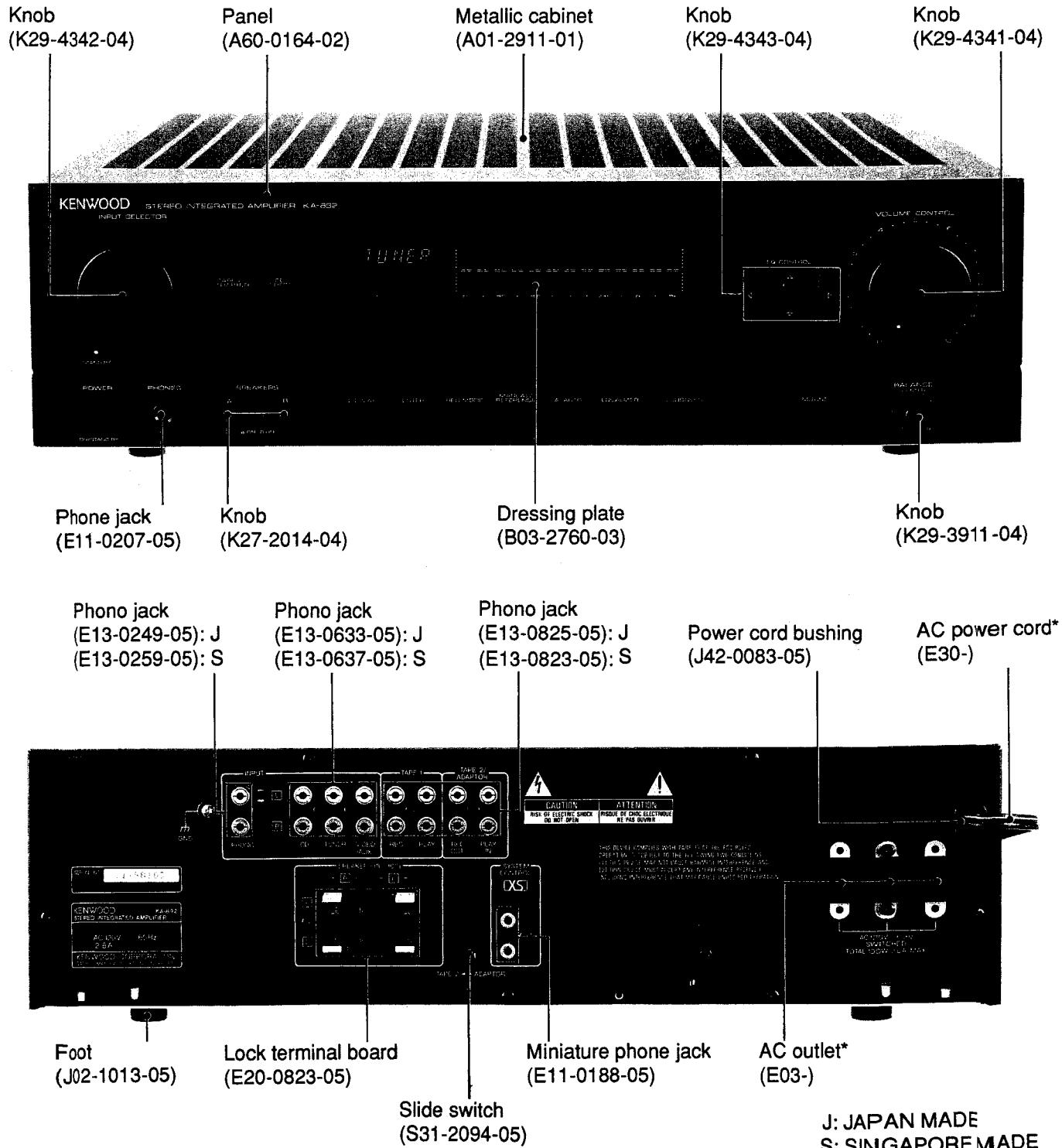
STEREO INTEGRATED AMPLIFIER

**KA-892**

# SERVICE MANUAL

**KENWOOD**

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J: JAPAN MADE

S: SINGAPORE MADE

\* Refer to parts list on page 26.

# KA-892

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### Supplied Remote Controller Table

The supplied remote controller model and method of packaging varies according to system grade and destination market.

	K	P	M, X, Y
KA-892	RC-992 OR RC-160	RC-160	RC-992

→ Supplied with the amplifier.  
→ Selected by the distributor according to the grade of the system and placed inside the outer carton (not supplied with the amplifier).

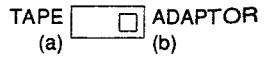
The RC-992 is a general system remote controller.  
The RC-160 is a system remote controller with running function.

### Protection circuit

While the protection circuit is operating, the indicator's alphanumeric display section flashes "-----".  
The protection circuit operates when it detects power transistor over-current or output section DC drift.

### Explanation of Back Panel Switch

This switches the input/output function of the TAPE 2/ADAPTOR.



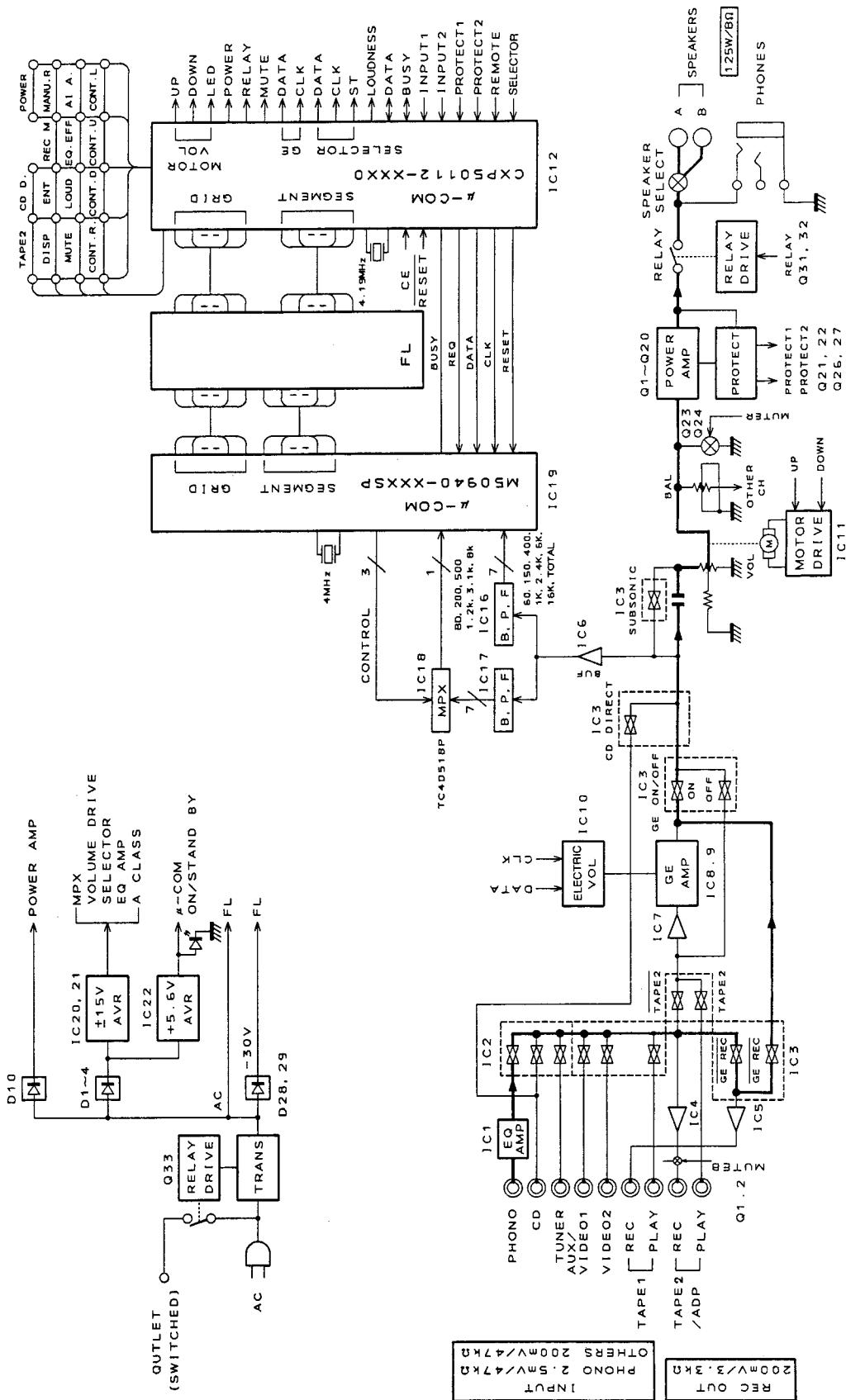
(a) Conventional tape monitor function

(b) When this switch is set to the ADAPTOR side, it operates as follows:

- (1) When the front panel TAPE 2/ADPT switch is turned on, the MAIN VR lowers once to zero and then rises again, stopping near the middle.
- (2) While ① is in progress, no keys function besides the power switch.
- (3) While the TAPE 2/ADPT switch is on, the MAIN VR cannot be remote-controlled; other functions work normally.
- (4) When the TPAE 2/ADPT switch is turned off, the MAIN VR automatically lowers to zero, and henceforth all functions, including MAIN VR, work normally.

This function was included with the surround processors SS-592 and SS-992 in mind and is irrelevant except when used with these two surround processors.

## BLOCK DIAGRAM

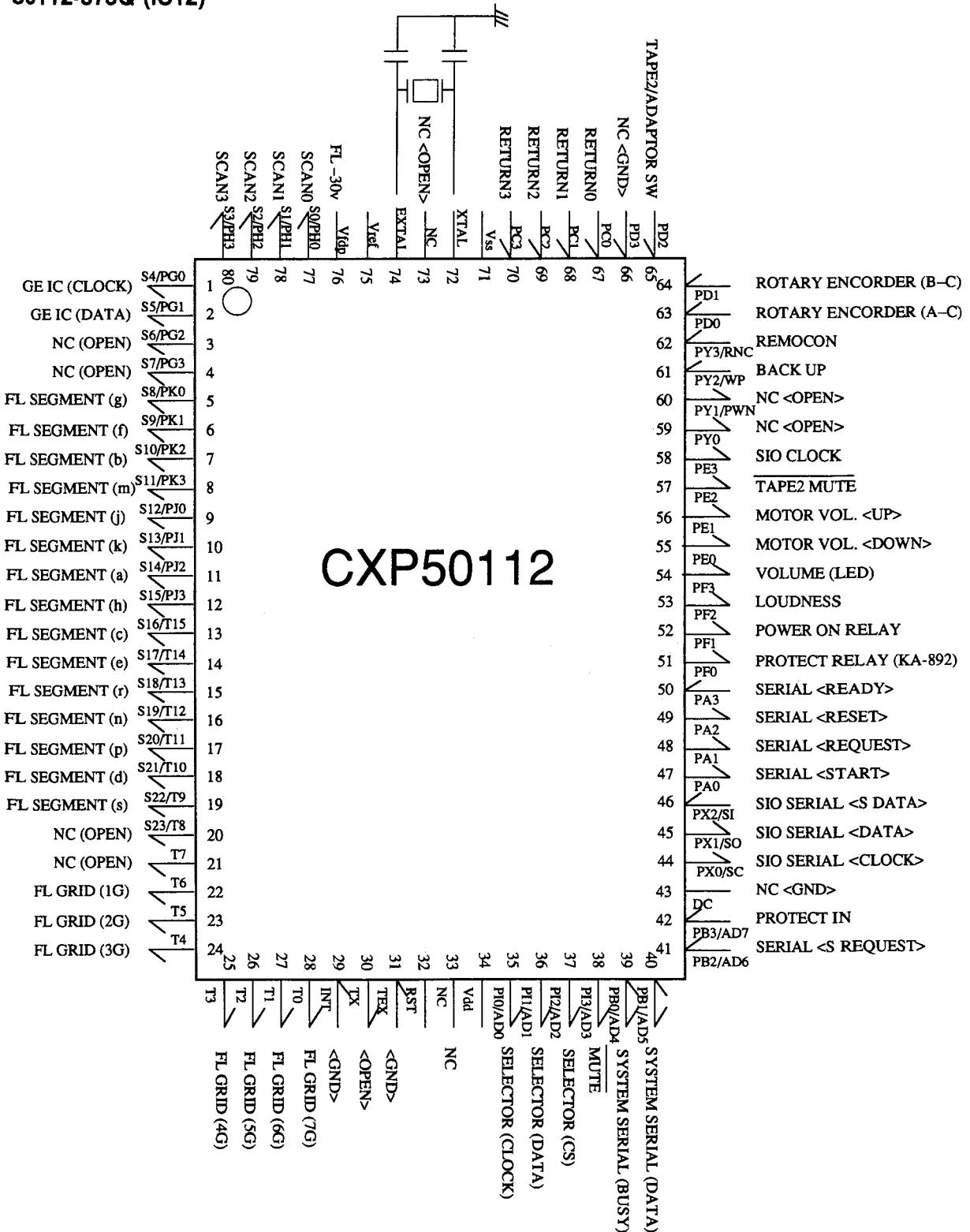


## CIRCUIT DESCRIPTION

### Micro Processor Diagram

Main  $\mu$ -com

CXP-50112-373Q (IC12)



## CIRCUIT DESCRIPTION

## Pin Description main µ-com CXP50112-373Q (IC12)

Pin No.	Pin Name	I/O	Name	Description
1	S4/PG0	O	GE IC CLOCK (NJU7305)	GE IC CLOCK output
2	S5/PG1	O	GE IC DATA (NJU7305)	GE IC DATA output
3	S6/PG2	-	NC (OPEN)	
4	P7/PG3	-	NC (OPEN)	
5	S8/PK0	O	FL SEGMENT (g)	FL segment (g)
6	S9/PK1	O	FL SEGMENT (f)	FL segment (f)
7	S10/PK2	O	FL SEGMENT (b)	FL segment (b)
8	S11/PK3	O	FL SEGMENT (m)	FL segment (m)
9	S12/PJ0	O	FL SEGMENT (j)	FL segment (j)
10	S13/PJ1	O	FL SEGMENT (k)	FL segment (k)
11	S14/PJ2	O	FL SEGMENT (a)	FL segment (a)
12	S15/PJ3	O	FL SEGMENT (h)	FL segment (h)
13	S16/T15	O	FL SEGMENT (c)	FL segment (c)
14	S17/T14	O	FL SEGMENT (e)	FL segment (e)
15	S18/T13	O	FL SEGMENT (r)	FL segment (r)
16	S19/T12	O	FL SEGMENT (n)	FL segment (n)
17	S20/T11	O	FL SEGMENT (p)	FL segment (p)
18	S21/T10	O	FL SEGMENT (d)	FL segment (d)
19	S22/T9	O	FL SEGMENT (s)	FL segment (s)
20	S23/T8	-	NC (OPEN)	
21	S23/T7	-	NC (OPEN)	
22	S23/T6	O	FL GRID (1G)	FL grid (1G)
23	S23/T5	O	FL GRID (2G)	FL grid (2G)
24	S23/T4	O	FL GRID (3G)	FL grid (3G)
25	S23/T3	O	FL GRID (4G)	FL grid (4G)
26	S23/T2	O	FL GRID (5G)	FL grid (5G)
27	S23/T1	O	FL GRID (6G)	FL grid (6G)
28	S23/T0	O	FL GRID (7G)	FL grid (7G)
29	INT	I	NC (GND)	External interrupt (No used)
30	TX	-	NC (OPEN)	32kHz T/C clock output (No used)
31	TEX	I	NC (GND)	32kHz T/C clock input (No used)
32	RST	I/O		Microprocessor reset
33	NC	-		
34	VDD	-		Power supply
35	PI0/AD0	O	SERECTOR (CLOCK)	Serector (TC9162/TC9163) CLOCK output
36	PI1/AD1	O	SERECTOR (DATA)	Serector (TC9162/TC9163) DATA output
37	PI2/AD2	O	SERECTOR (CS)	Serector (TC9162/TC9163) CS output
38	PI3/AD3	O	MUTE	MUTE output
39	PB0/AD4	I/O	SERIAL (BUSY)	Serial "BUSY"
40	PB1/AD5	I/O	SERIAL (DATA)	Serial "DATA"
41	PB2/AD6	I	SERIAL (SLAVE REQUEST)	Serial "S REQUEST" (communication)
42	PB3/AD7	I	PROTECT IN	Protection input
43	EC	-	NC (GND)	
44	PX0/SC	O	SIO CLOCK	SIO serial CLOCK (communication)

# KA-892

## CIRCUIT DESCRIPTION

CXP50112-373Q (IC12)

Pin No.	Pin Name	I/O	Name	Description
45	PX1/SO	O	SIO DATA OUT	SIO serial DATA (communication)
46	PX2/SI	I	SIO DATA IN	SIO serial DATA (communication)
47	PA0	O	SERIAL (START)	Serial "START" (communication)
48	PA1	O	SERIAL (REQUEST)	Serial "REQUEST" (communication)
49	PA2	O	SERIAL (RESET)	Serial "RESET" (communication)
50	PA3	I	SERIAL (READY)	Serial "READY" (communication)
51	PF0	O	PROTECTION RELAY	Protection relay
52	PF1	O	POWER ON RELAY	Power on relay
53	PF2	-	NC (GND)	
54	PF3	O	MASTER VOLUME (LED)	LED
55	PE0	O	MOTOR VOLUME <DOWN>	Motor volume "DOWN" output
56	PE1	O	MOTOR VOLUME <UP>	Motor volume "UP" output
57	PE2	O	TAPE 2 MUTE	TAPE 2 MUTE output
58	PE3	O	SERIAL SIO (CLOCK OUT)	SIO external CLOCK output
59	PY0	-	NC (OPEN)	
60	PY1/PWM	-	NC (OPEN)	
61	PY2/WP	I	BACK UP	Backup input
62	PY3/RMC	I	REMOCON	Remote control signal input
63	PD0	I	ROTARY ENCODER (A-C)	Rotary encoder input pin
64	PD1	I	ROTARY ENCODER (B-C)	Rotary encoder input pin
65	PD2	I	TAPE2/ADAPTOR	TAPE 2/Adaptor selector switch input pin
66	PD3	-	NC (GND)	
67	PC0	I	RETURN 0	Key return 0
68	PC1	I	RETURN 1	Key return 1
69	PC2	I	RETURN 2	Key return 2
70	PC3	I	RETURN 3	Key return 3
71	Vss	-		GND
72	XTAL	-		CLOCK output
73	NC	-	NC (OPEN)	
74	EXTAL	I		CLOCK input
75	VREF	-		Voltage detection reference voltage pin (No used)
76	VFDP	-		FL load power supply pin
77	S0/PH0	O	SCAN 0	Key scan 0
78	S1/PH1	O	SCAN 1	Key scan 1
79	S2/PH2	O	SCAN 2	Key scan 2
80	S3/PH3	O	SCAN 3	Key scan 3

## CIRCUIT DESCRIPTION

### Test Mode Specifications

As shown below, this unit has three test modes.

- TEST 1.....Test mode using the main unit's keys
- TEST 2.....RAM contents initial setting mode
- TEST 3.....Test mode using serial terminal

Addition: The RAM contents are returned to initial settings by unplugging from the AC power outlet during TEST 1 and TEST 3 modes.

### Setting methods

- 1) TEST 1: Plug into the AC power outlet while pressing the CD DIRECT key
- 2) TEST 2: Plug into the AC power outlet while pressing the ENTER key
- 3) TEST 3: With POWER OFF, transmit serial code TEST ON (71H)

### Usage methods

Operate the TEST 1 mode than all FL and LED indicators go on. Operate the TEST 2 mode then microprocessor is initial setting and POWER OFF mode (shipping mode).

Operate the TEST 3 mode then start serial operation in accordance with serial code list on next page.

- 1) TEST 1 (Operation through the main unit's keys)
  - a) Operate any key to cancel all the FL and LED indicators that go on.

#### b) MASTER VOLUME

The following keys are applied to VOLUME UP / STOP / DOWN, operating as follows.

VOLUME UP = continuous increase with the control UP key.

VOLUME STOP = stops UP/DOWN with the LEFT/RIGHT key.

VOLUME DOWN = continuous decrease with the control DOWN key.

#### c) Graphic equalizer

Input of the EQ. ON key causes the following modes to repeat.



#### 2) TEST 3 (Serial pin operation)

Normally the received serial code is sent just as it is. However, the following codes are exceptions:

TEST OFF (70H)	Serial code not sent
TEST ON (71H)	Serial code not sent
POWER (8CH)	System ON/OFF code (25H/26H) sent
SELECTOR [PHONO] (80H)	Position code (73H) sent
SELECTOR [CD] (81H)	Position code (74H) sent
SELECTOR [TUNER] (82H)	Position code (72H) sent
SELECTOR [TAPE1] (83H)	Position code (76H) sent
SELECTOR [TAPE2] (84H)	ON OFF code ON/ OFF=(7DH/7EH) sent
SELECTOR [VIDEO1] (87H)	Position code (7AH) sent
SELECTOR [VIDEO2] (88H)	Position code (77H) sent

#### Master volume

Uses the Volume UP (8FH)/DOWN (8EH) keys and continues to work when one transmission is carried out.

Also, when stopping KEY OFF (90H) is sent.

**Note:** Only the color-differentiated codes on the separate serial code chart operate.

## CIRCUIT DESCRIPTION

TYPE FUNC.	GRAPHIC EQUALIZER			TUNER			AMPLIFIER			CD		
	1	2	3	4	5	6	7	8	9	A	B	C
0 UP	32Hz DOWN	EQ REC ON/OFF	R1	0/10	AUTO/ MANU	CLEAR	TEST OFF	PHONO	KEY OFF	DELAY	VISUAL	
1 UP	55Hz DOWN	DISP 2	R2	1	P.SCAN	ADJUST	TEST ON	CD/D	UP/DOWN	TIME MIN	FIX	SPA
2 UP	90Hz DOWN		R3	2	ENTER	PROGRAM (MEMORY)	PRO1	TUNER	third stage	TIME MAX	1	SP.B
3 UP	150Hz DOWN	DISP (Roh)	R4	3	KEY	SLEEP		UP/DOWN	PRESENCE	LOUDNESS		PLAY/PAU
4 UP	240Hz DOWN	DISP (Loh)	R5	4	Test frequency setting	EXE		third stage	LEVEL MIN	2		
5 UP	400Hz DOWN		FLAT	5	Initial condition setting	DISPLAY		ON	PRESENCE	SUBSONIC		
6 UP	620Hz DOWN	REC MODE	POWER	6	FL/LED full illumination	C.CHECK		TAPE A)	LEVEL MAX	3	FILTER	
7		REAKHOL ON/OFF	EQ	7	DIRECT	PRO2		TAPE 1	CENT MOD	4	ADPT/ TAP3	
8 UP	1kHz DOWN	UP/DOWN third stage	M1	8	DIGIT			TAPE B)	FL/LED full illumination	TEST	BYPASS	
9 UP	1.6kHz DOWN	UP/DOWN third stage	M2	9	CHARATER			TAPE 2	DECK	ONOFF	5	
A UP	2.6kHz DOWN	Initial condition setting	M3	POWER	SNDC				adjustment mode setting			CHECK
B UP	4.2kHz DOWN	EQ test memory settings	M4	BAND	P.SCAN- (FM)				ONOFF			CLEAR
C UP	6.8kHz DOWN	FL.LD full illumination	M5	BAND	+10				TEST	BASS CON	DSP	OPEN
D UP	10kHz DOWN			(AM)					DIRECT	TONE MOD	DOWN	CLOSE
E UP	16kHz DOWN			BAND					DAT	WOOFER	BASS	SKIP UP
F									VIDEO 1	DIRECT	CONTL UP	3STEREO
										CENTER	DOLBY	SKIP DOWN
										CD REC	LEVEL MIN	PRO LOGI
										FRONT	CENTER	LINE
										/REAR	LEVEL MAX	
										SURROUND	MEMORY	STRAIGHT
										ON/OFF	SAVE	P.MODE
										AUX	MEMORY	INPUT
										MODE	OUT	SPACE
										REAR	SHIFT	TIME
										LEVEL MIN	LEVEL +	DISPLAY
										-ANC Roh	→(R)	+10
										REAR	TITLE	
										MUTE	BALLANCE	
										LEVEL MAX	←(L)	EDIT
										MAIN VOL DOWN	REC OUT	
										ALL DOWN	SEL VID1	CENT LEV
										MAIN VOL	DSPS	RANDOM
										UP	MENU	PRESENCE
										ALL UP	LEV (MID)	REPEAT

: After receiving code, a code that issues the SEL CODE, SYSTEM ON/OFF code.

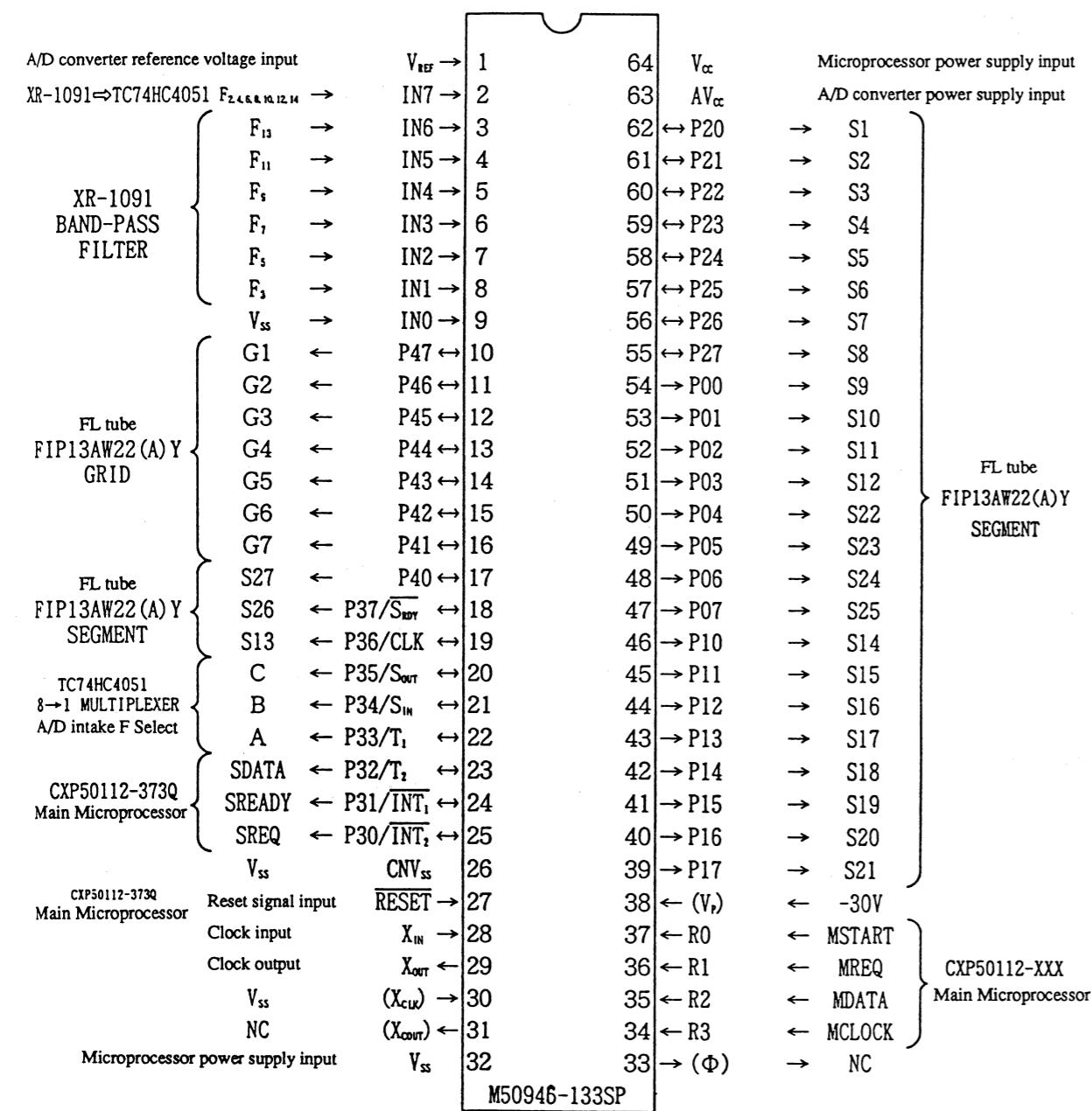
: After receiving code, a code that issues the same code as the input code.

: After receiving code, a code that issues no code.

## CIRCUIT DESCRIPTION

## Microprocessor Pin Layout Diagram

## GE control and display μ-com M50946-133SP (IC19)



## CIRCUIT DESCRIPTION

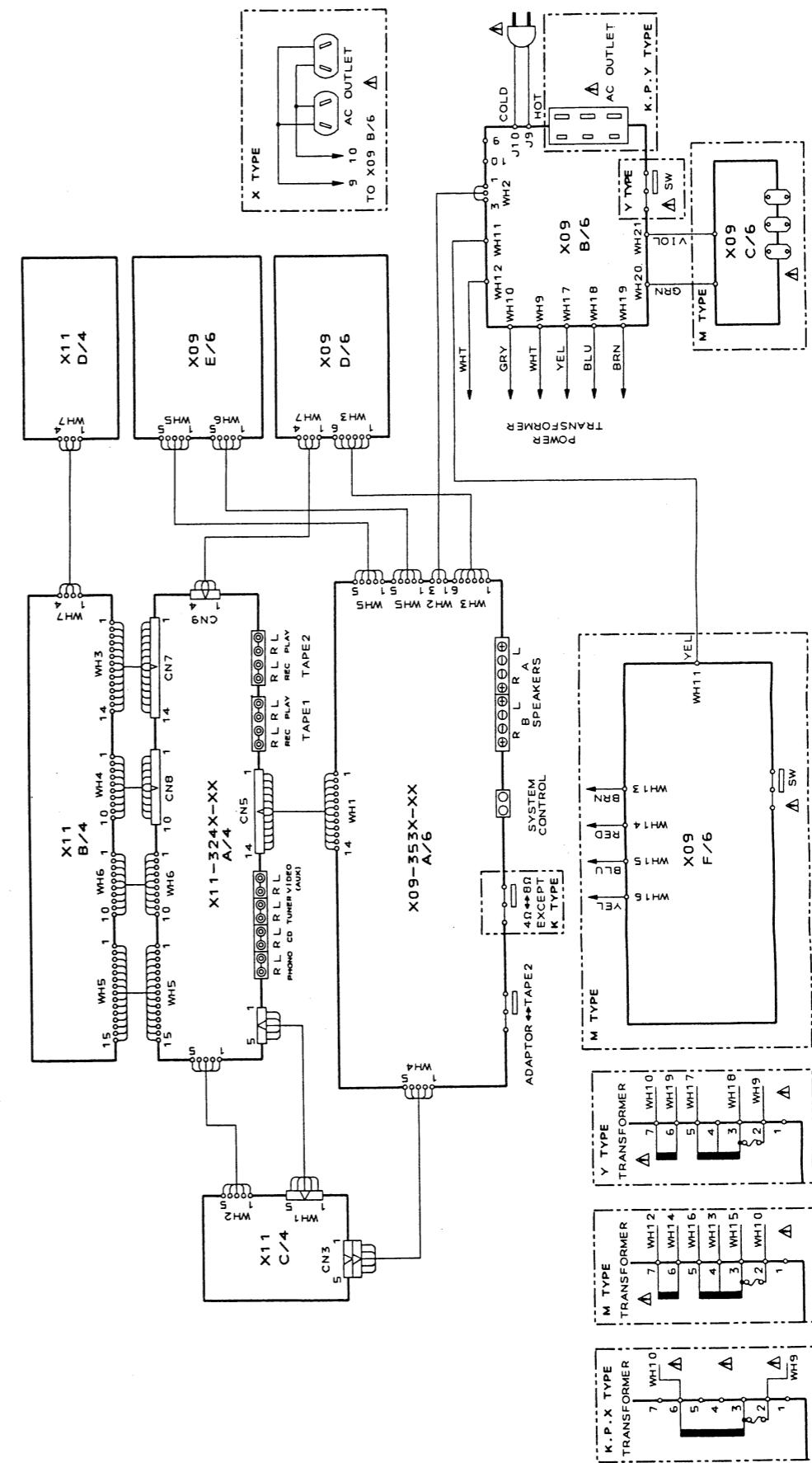
## Pin Description sub μ-com M50946-133SP (IC19)

Pin No.	Pin Name	I/O	Name	Description
1	V <sub>REF</sub>		V <sub>REF</sub>	A/D converter reference power supply input
2	IN7	I	F <sub>2</sub> , F <sub>4</sub> , F <sub>6</sub> , F <sub>8</sub> , F <sub>10</sub> , F <sub>12</sub> , F <sub>14</sub>	Analog signal input through the multiplexer TC74HC4051 F <sub>2</sub> : 63Hz, F <sub>4</sub> : 160Hz, F <sub>6</sub> : 400Hz, F <sub>8</sub> : 1kHz, F <sub>10</sub> : 2.5kHz, F <sub>12</sub> : 6.3kHz, F <sub>14</sub> : 16kHz
3	IN6	I	F <sub>13</sub>	10kHz analog signal input (signal input directly from the filter circuit)
4	IN5	I	F <sub>11</sub>	3.9kHz analog signal input (signal input directly from the filter circuit)
5	IN4	I	F <sub>9</sub>	1.5kHz analog signal input (signal input directly from the filter circuit)
6	IN3	I	F <sub>7</sub>	625Hz analog signal input (signal input directly from the filter circuit)
7	IN2	I	F <sub>5</sub>	250Hz analog signal input (signal input directly from the filter circuit)
8	IN1	I	F <sub>3</sub>	98Hz analog signal input (signal input directly from the filter circuit)
9	IN0	I	V <sub>ss</sub>	Unused (analog input pin)
10	P47	O	G <sub>1</sub>	FL tube grid G <sub>1</sub> (Pin number 77) drive signal input H: on L: off
11	P46	O	G <sub>2</sub>	FL tube grid G <sub>2</sub> (Pin number 76) drive signal input H: on L: off
12	P45	O	G <sub>3</sub>	FL tube grid G <sub>3</sub> (Pin number 75) drive signal input H: on L: off
13	P44	O	G <sub>4</sub>	FL tube grid G <sub>4</sub> (Pin number 74) drive signal input H: on L: off
14	P43	O	G <sub>5</sub>	FL tube grid G <sub>5</sub> (Pin number 73) drive signal input H: on L: off
15	P42	O	G <sub>6</sub>	FL tube grid G <sub>6</sub> (Pin number 72) drive signal input H: on L: off
16	P41	O	G <sub>7</sub>	FL tube grid G <sub>7</sub> (Pin number 71) drive signal input H: on L: off
17	P40	O	S <sub>27</sub>	FL tube segment S <sub>27</sub> (Pin number 44) drive signal input H: on L: off
18	P37 (SRDY)	O	S <sub>26</sub>	FL tube segment S <sub>26</sub> (Pin number 43) drive signal input H: on L: off
19	P36 (CLK)	O	S <sub>13</sub>	FL tube segment S <sub>13</sub> (Pin number 42) drive signal input H: on L: off
20	P35 (SOUT)	O	C	Multiplexer TC74HC4051 control signal output (TC74HC4051: F <sub>2</sub> , 4, 6, 8, 10, 12, 14 for analog signal selection)
21	P34 (SIN)	O	B	Multiplexer TC74HC4051 control signal output
22	P33 (T <sub>1</sub> )	O	A	Multiplexer TC74HC4051 control signal output
23	P32 (T <sub>2</sub> )	O	SDATA	Sub microprocessor serial DATA signal output
24	P31 (INT <sub>1</sub> )	O	SREADY	Sub microprocessor serial DATA communicability signal output H: data communications possible L: data communications impossible
25	P30 (INT <sub>2</sub> )	O	SREQ	Sub microprocessor serial DATA send request signal output H: Sub microprocessor DATA send request L: others
26	CNV <sub>ss</sub>		V <sub>ss</sub>	Unused (microprocessor internal mode switching)
27	RESET	I	RESET	Reset signal detect H: others L: reset
28	X <sub>IN</sub>	I	X <sub>IN</sub>	System clock input (4.0MHz resonator)
29	X <sub>OUT</sub>	O	X <sub>OUT</sub>	System clock output (4.0MHz resonator)
30	X <sub>CIN</sub>	I	V <sub>ss</sub>	Unused (clock input pin)
31	X <sub>COUT</sub>	O	NC	Unused (clock output pin)
32	V <sub>ss</sub>		GND	
33	Φ	O	NC	Unused (system clock 1/4 cycle output)
34	R <sub>3</sub>	I	MCLOCK	Main microprocessor serial DATA communications CLOCK signal input
35	R <sub>2</sub>	I	MDATA	Main microprocessor serial DATA signal input
36	R <sub>1</sub>	I	MREQ	Main microprocessor serial DATA send request signal input H: Main microprocessor DATA send request L: others
37	R <sub>0</sub>	I	MSTART	Main microprocessor serial DATA communications start signal input H: Main-Sub data communications start L: others
38	V <sub>p</sub>	I	-30V	PULL DOWN V input -30V
39	P17	O	S <sub>21</sub>	FL tube segment S <sub>21</sub> (Pin number 45) drive signal input H: on L: off
40	P16	O	S <sub>20</sub>	FL tube segment S <sub>20</sub> (Pin number 46) drive signal input H: on L: off

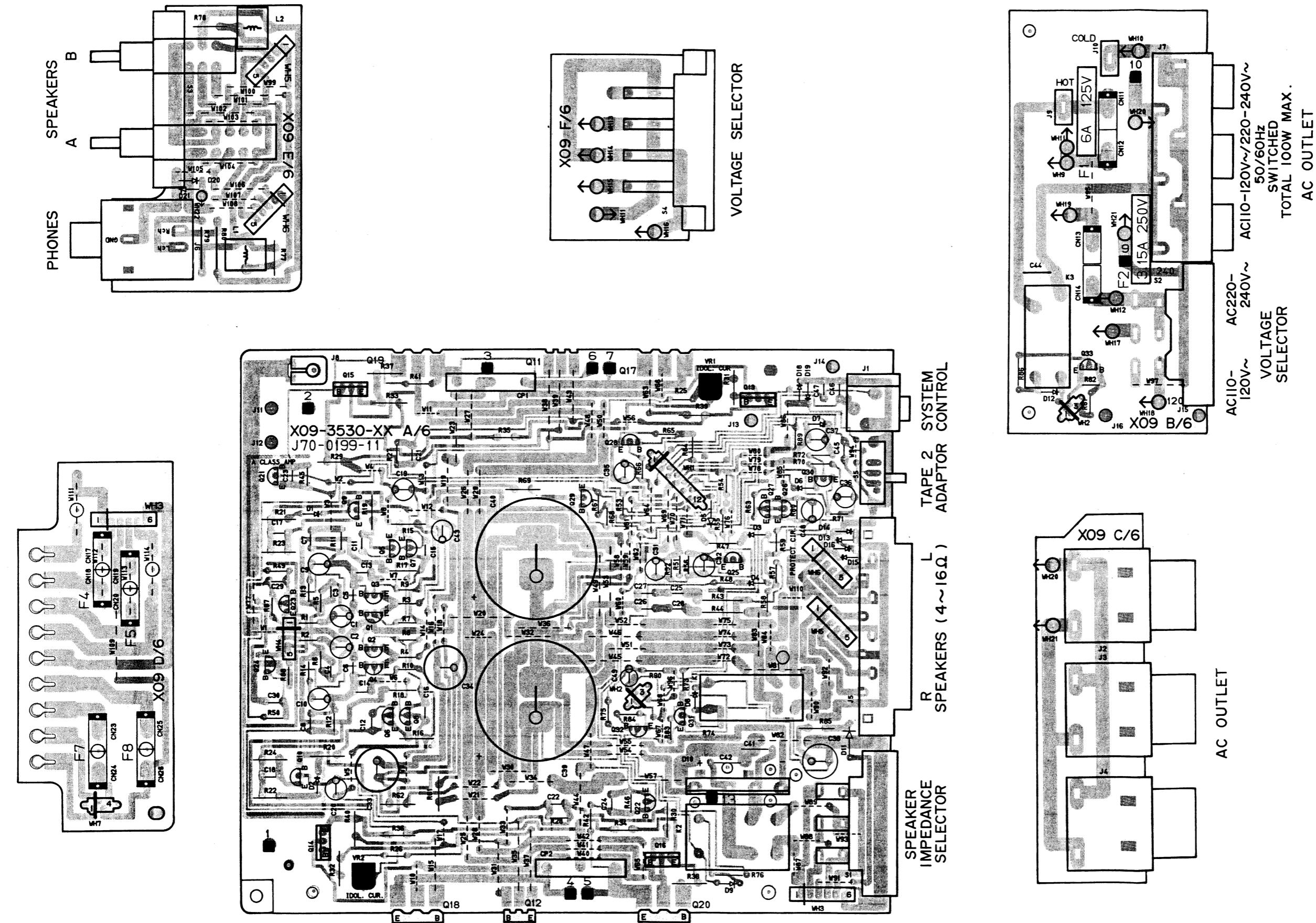
M50940-133SP (IC19)

Pin No.	Pin Name	I/O	Name	Description	
41	P15	O	S19	FL tube segment S19 (Pin number 47) drive signal input	H: on L: off
42	P14	O	S18	FL tube segment S18 (Pin number 48) drive signal input	H: on L: off
43	P13	O	S17	FL tube segment S17 (Pin number 49) drive signal input	H: on L: off
44	P12	O	S16	FL tube segment S16 (Pin number 50) drive signal input	H: on L: off
45	P11	O	S15	FL tube segment S15 (Pin number 51) drive signal input	H: on L: off
46	P10	O	S14	FL tube segment S14 (Pin number 52) drive signal input	H: on L: off
47	P07	O	S25	FL tube segment S25 (Pin number 53) drive signal input	H: on L: off
48	P06	O	S24	FL tube segment S24 (Pin number 54) drive signal input	H: on L: off
49	P05	O	S23	FL tube segment S23 (Pin number 55) drive signal input	H: on L: off
50	P04	O	S22	FL tube segment S22 (Pin number 56) drive signal input	H: on L: off
51	P03	O	S12	FL tube segment S12 (Pin number 57) drive signal input	H: on L: off
52	P02	O	S11	FL tube segment S11 (Pin number 58) drive signal input	H: on L: off
53	P01	O	S10	FL tube segment S10 (Pin number 59) drive signal input	H: on L: off
54	P00	O	S9	FL tube segment S09 (Pin number 60) drive signal input	H: on L: off
55	P27	O	S8	FL tube segment S08 (Pin number 61) drive signal input	H: on L: off
56	P26	O	S7	FL tube segment S07 (Pin number 62) drive signal input	H: on L: off
57	P25	O	S6	FL tube segment S06 (Pin number 63) drive signal input	H: on L: off
58	P24	O	S5	FL tube segment S05 (Pin number 64) drive signal input	H: on L: off
59	P23	O	S4	FL tube segment S04 (Pin number 65) drive signal input	H: on L: off
60	P22	O	S3	FL tube segment S03 (Pin number 66) drive signal input	H: on L: off
61	P21	O	S2	FL tube segment S02 (Pin number 67) drive signal input	H: on L: off
62	P20	O	S1	FL tube segment S01 (Pin number 68) drive signal input	H: on L: off
63	AVcc		AVcc	A/D converter power supply input	+5V
64	Vcc		Vcc	Microprocessor power supply input	+5V

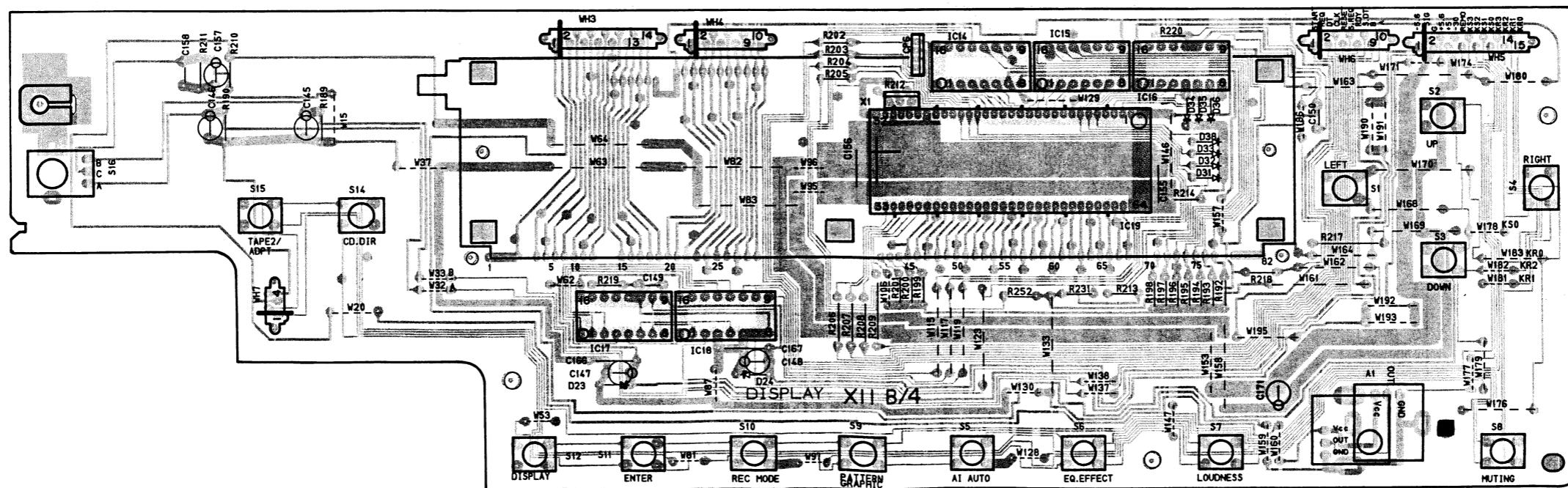
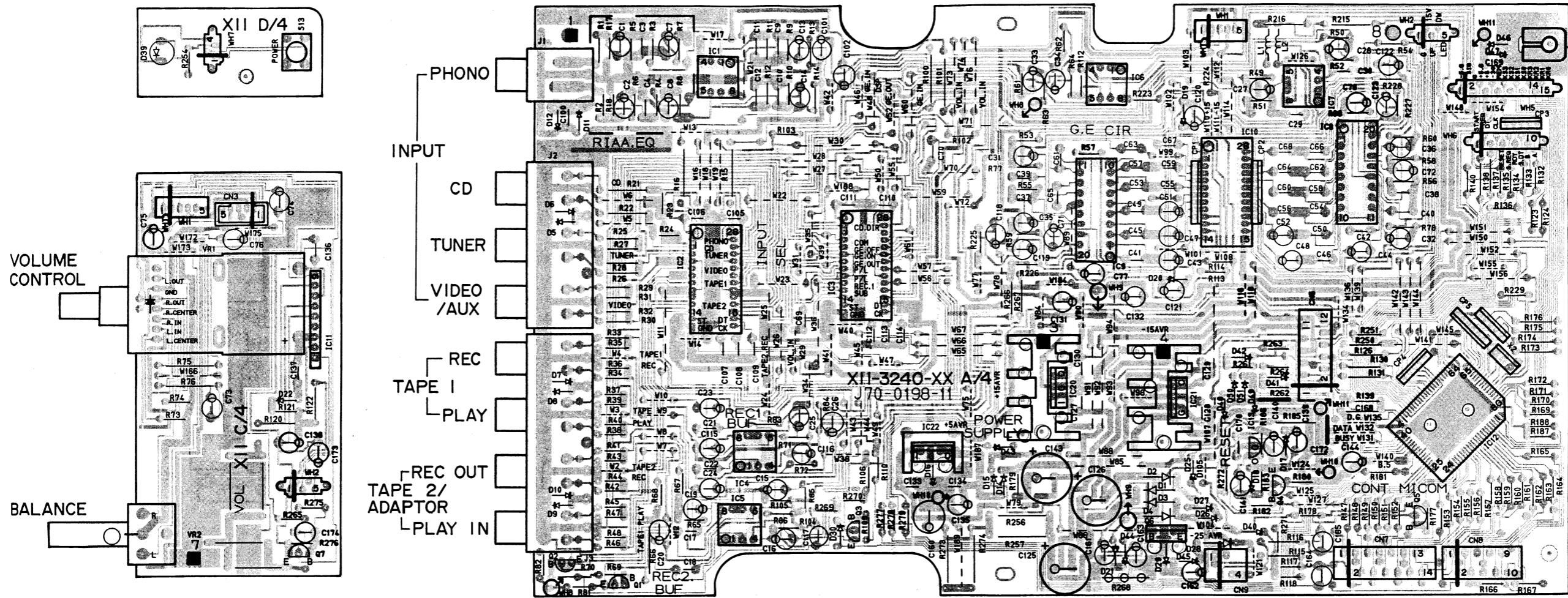
KA-892	X09-353X-XX	K. P	Y	M	X	M
	X11-324X-XX	0-10	2-91	0-21	0-71	0-22
				0-10		0-21



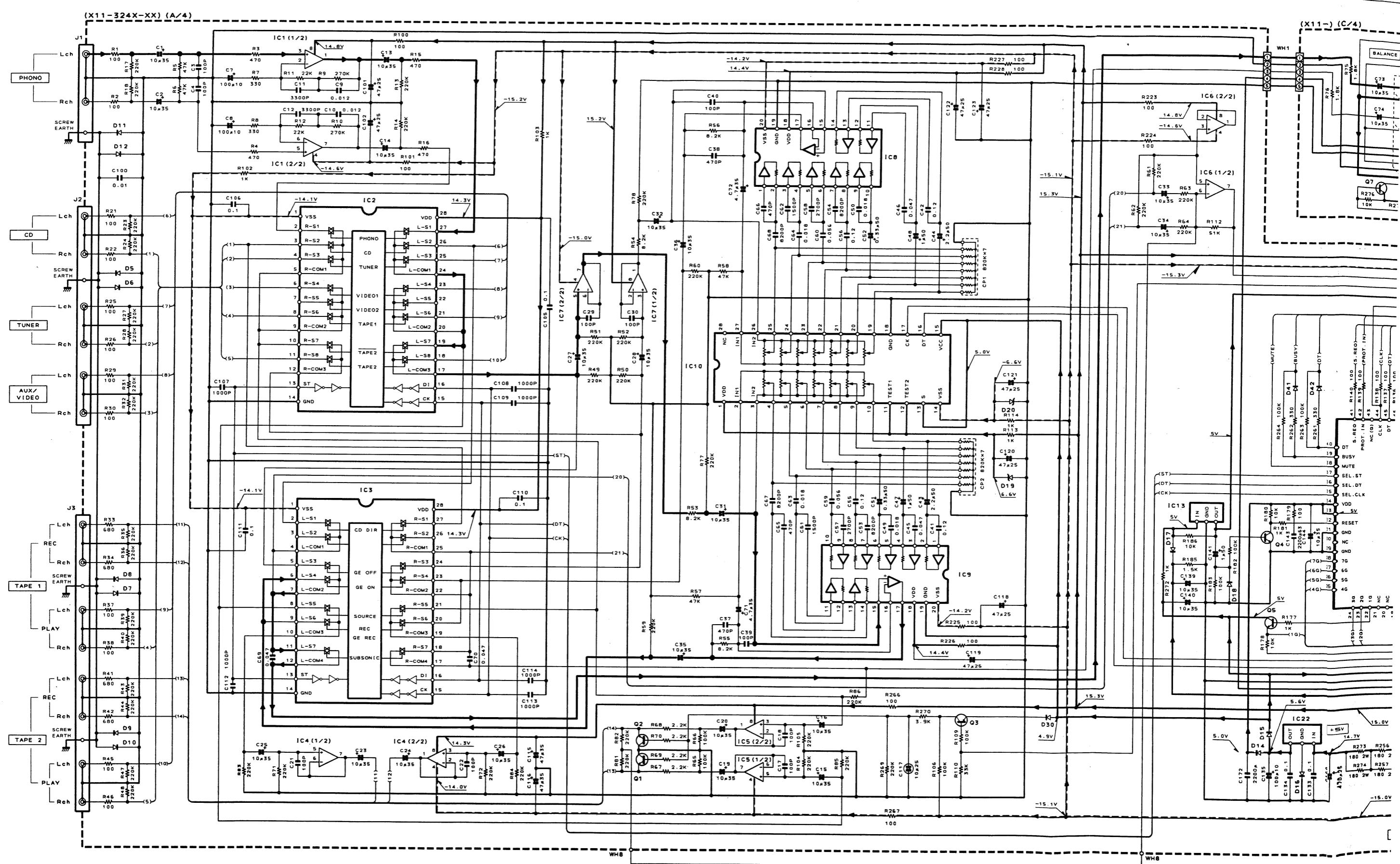
## PC BOARD (Component side view)

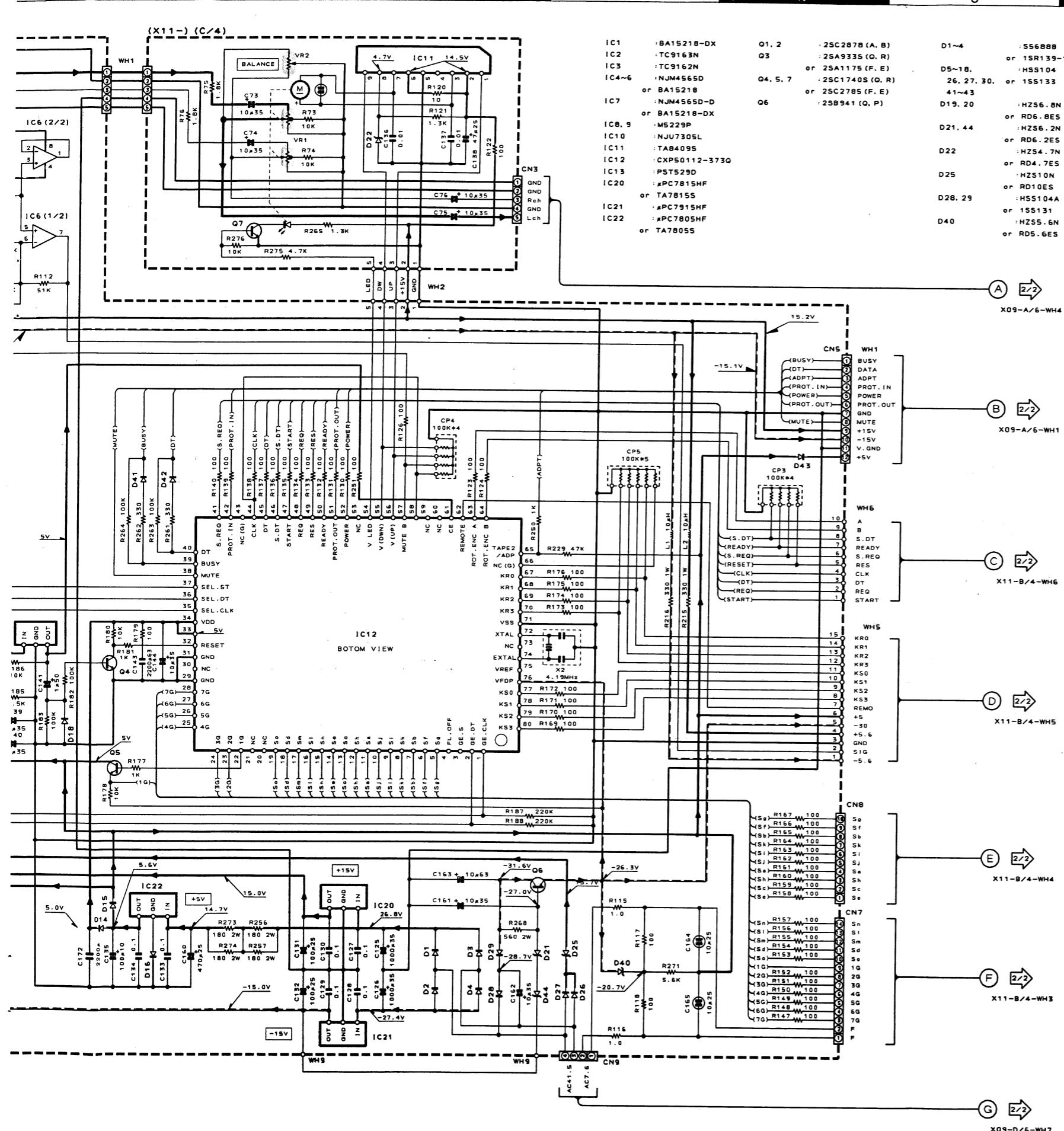


## PC BOARD (Component side view)



Refer to the schematic diagram for the values of resistors and capacitors.





DC voltages are measured with no signal inputs between individual

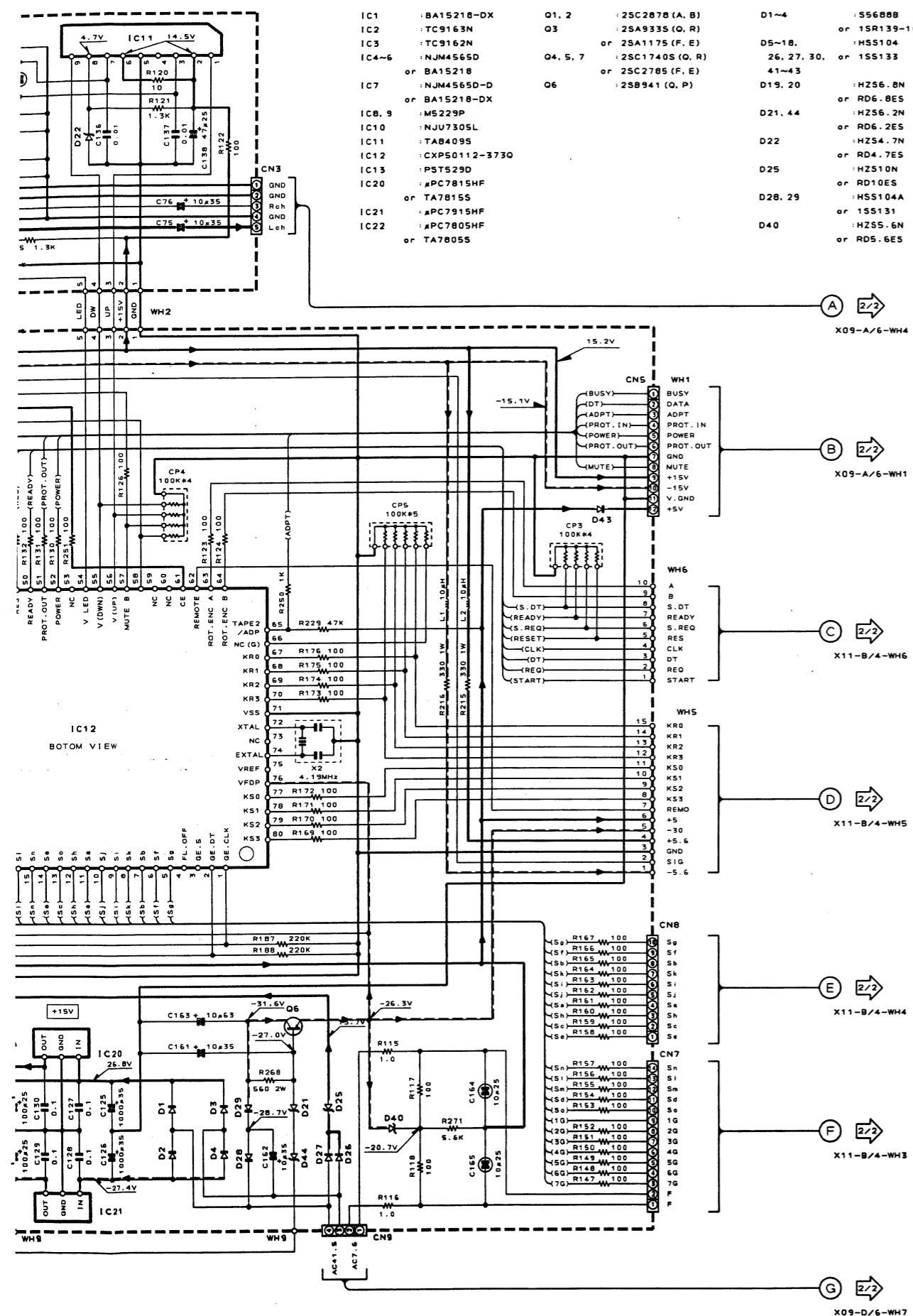
Les tensions c.c. doivent être élevées sans déformer légèrement du fil et aux instruments de

Die angegebenen Gle  
hochohmigen Spar  
gemessen. Dabei schv  
terschieden zwischen  
U. gering fügig.

**CAUTION:** For continents only with main parts list).  Indicate risk of electric shock, shall be carried out (e.g. the supply circuit) before

Y08-4530-1

L M N O P Q R S T U



IC1 : BA15218-DX Q1, 2 : 2SC2878 (A, B) D1~4 : 556888  
 IC2 : TC9163N Q3 : 2SA933S (Q, R) or 1SR139-100  
 IC3 : TC9162N Q4, 5, 7 : 2SA1175 (F, E) or 2SC1740S (Q, R) D5~18 : HSS104  
 IC4~6 : NJM4565D Q6 : 2SC2785 (F, E) or 2SB941 (Q, P) 26, 27, 30, or 1SS133  
 IC7 : NJM4565D-D or BA15218-DX D19, 20 : HZ56.8N or RD6.8ES  
 IC8, 9 : MS229P D21, 44 : HZ56.2N or RD6.2ES  
 IC10 : NJU7305L D22 : HZ54.7N or RD4.7ES  
 IC11 : TA8409S D25 : HZ51.0N or RD10ES  
 IC12 : CXP50112-373Q D28, 29 : HSS104A or 1SS131  
 IC13 : PST529D D40 : HZ55.6N or RD5.6ES  
 IC14 : PC7815HF or TA7815S  
 IC15 : PC7915HF or PC7805HF or TA7805S

2SA1123  
 2SA992  
 2SC2003  
 2SC2631  
 2SC2632A  
 2SC2878

2SA1175  
2SC2785

2SA1048  
2SA933S  
2SC1740S  
2SC2458

2SA1215  
2SC2921

2SC4137

2SA1535  
2SB941  
2SC3944

XR-1091ECP

SIGNAL LINE  
 GND LINE  
 +B LINE  
 -B LINE

2SA1309A  
 2SC3311A

BA15218  
 BA15218-DX  
 NJM4565D  
 NJM4565D-D

LB1294

TC4051BP

TA8409S

M5229P

UPC7915HF

NJU7305L  
 28

UPC7805HF  
 UPC7815HF

PST529D

TC9162N  
TC9163N

TA7805S  
TA7815S

DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance sans signal d'entrée. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

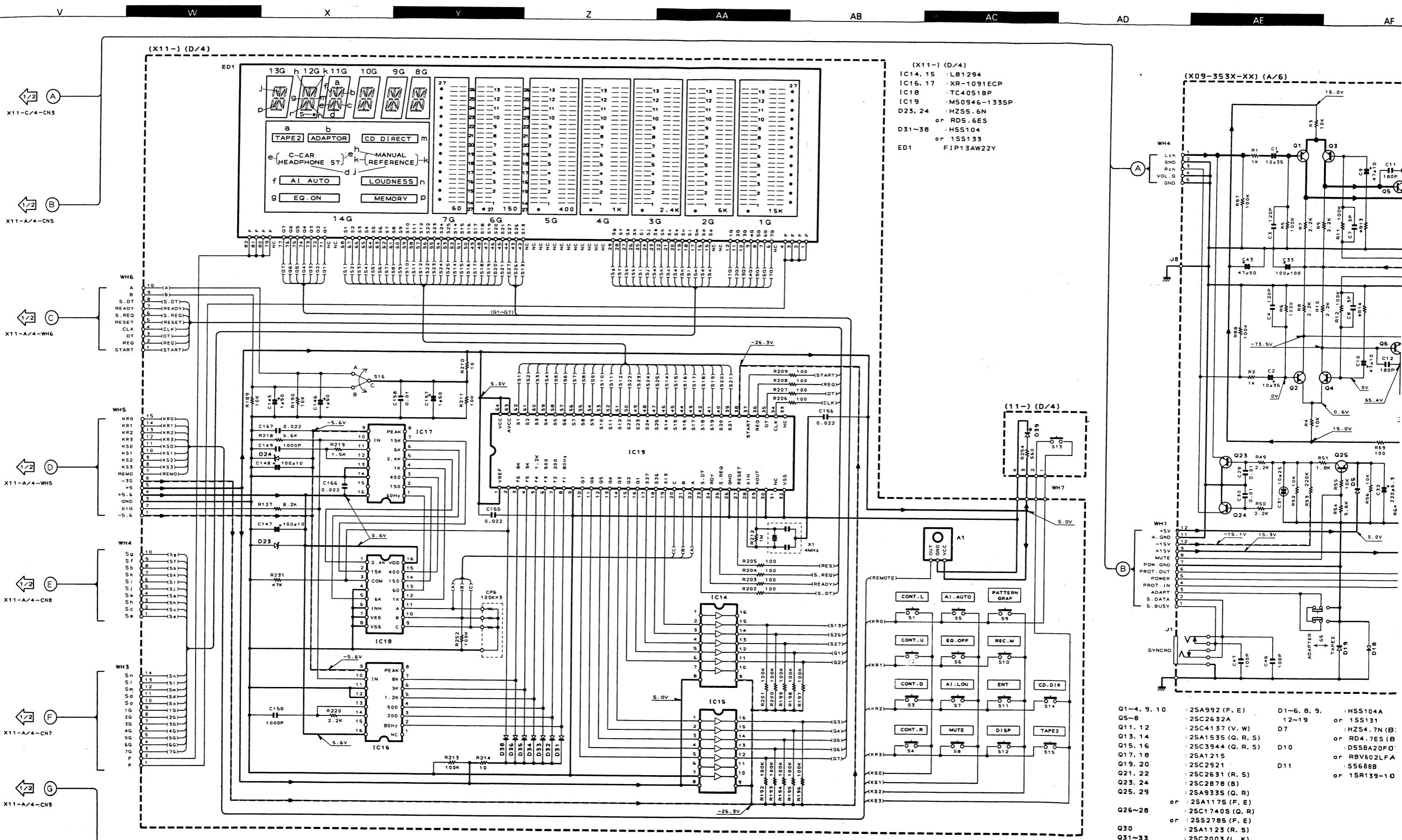
Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser ohne Eingangssignal gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

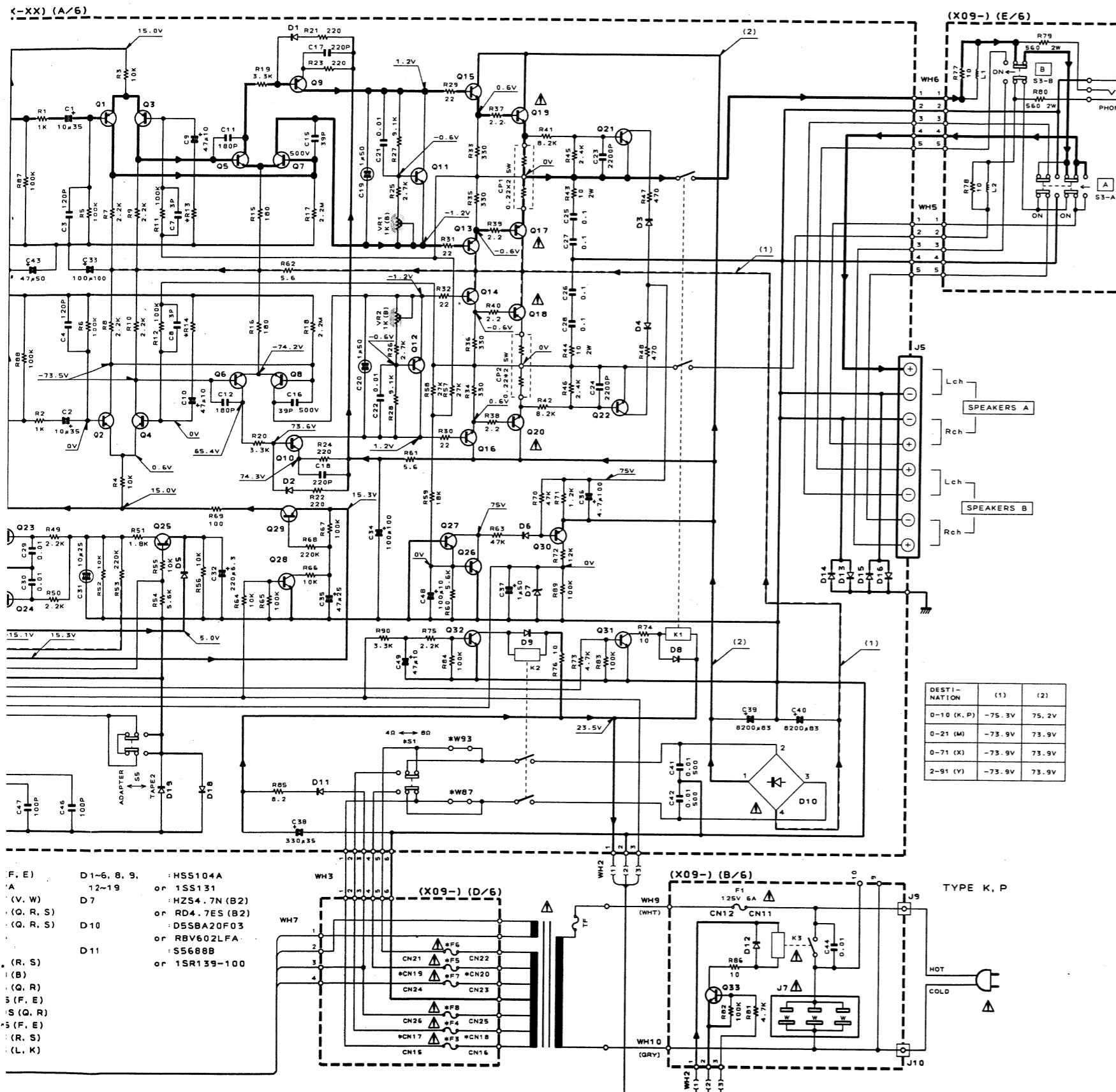
**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

KA-892

KENWOOD

Y08-4530-10





DESTINATION			
REF. NO.	0-10 (K, P)	0-21 (M)	0-71 (X)
R13, 14	510	560	560
WB7, 93	YES	NO	NO
S1	NO	YES	YES
F1	125V 6A	250V T6.3A	250V T3.15A
F2	NO	250V T3.15A	NO
F3, 6	125V 6A	250V T6.3A	250V 6.3A
F4, 5	NO	250V T6.3A	250V 6.3A
F7, 8	250V 2A	250V T2A	250V 2A
CN17, 18	NO	YES	YES
CN19, 20	NO	YES	YES

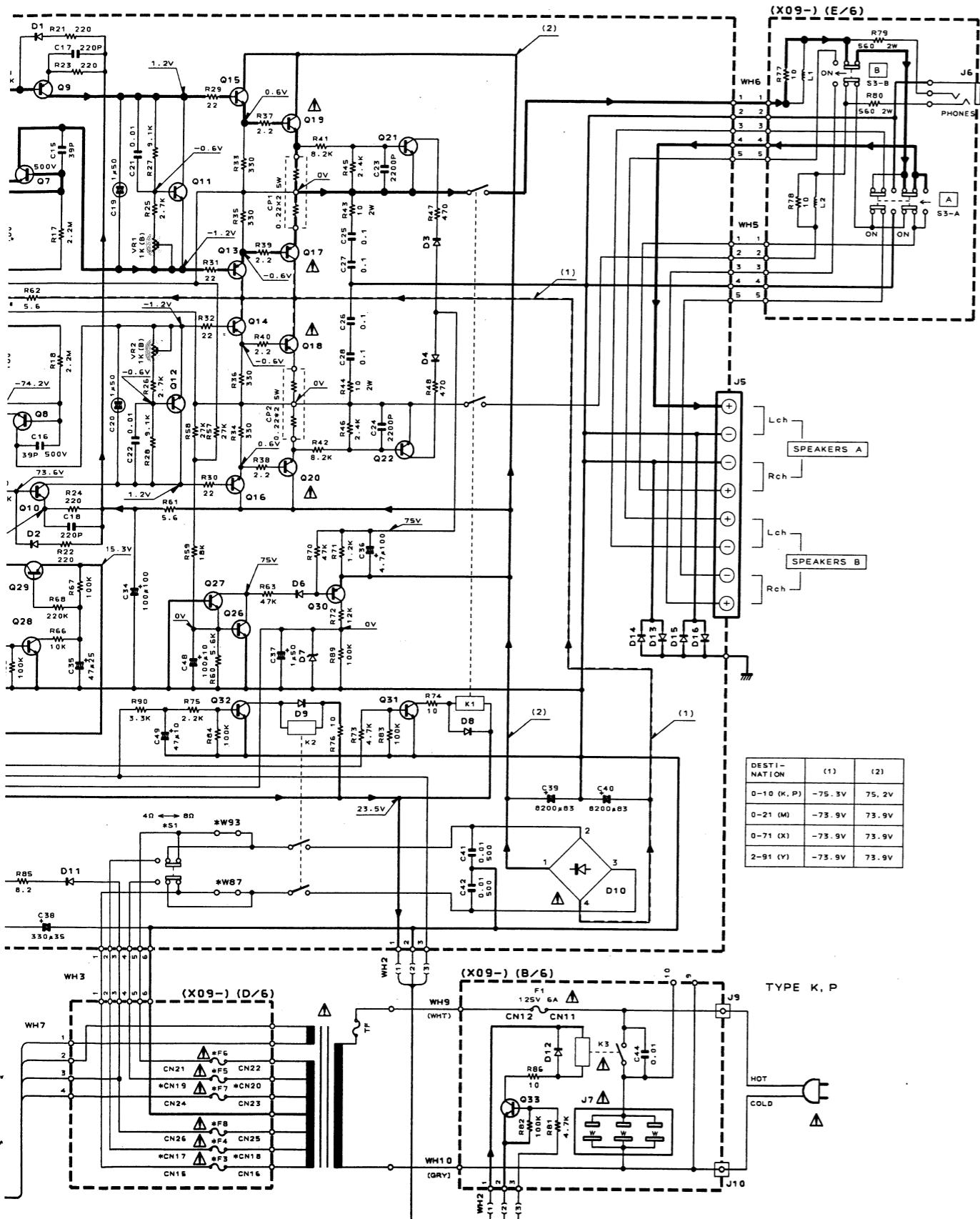
DC voltages are as measured with no signal input. Va tions between individual ins

Les tensions c.c. doivent é haute impédance sans sign ferer légèrement du fait des et aux instruments de mesu

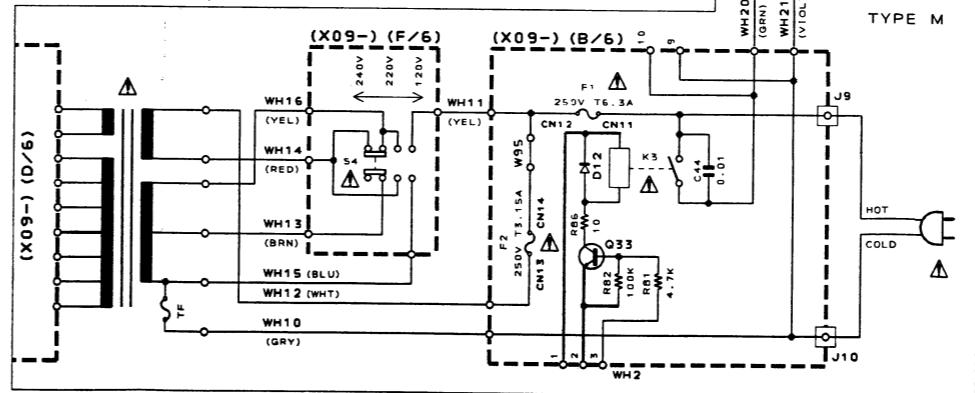
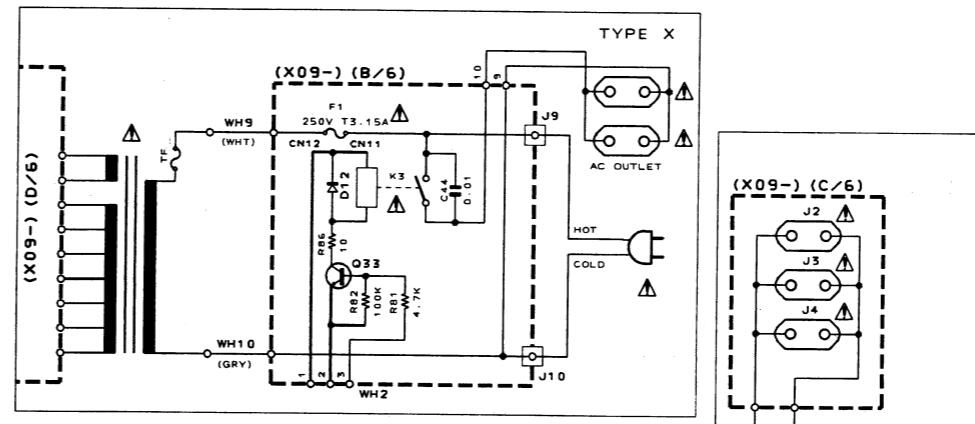
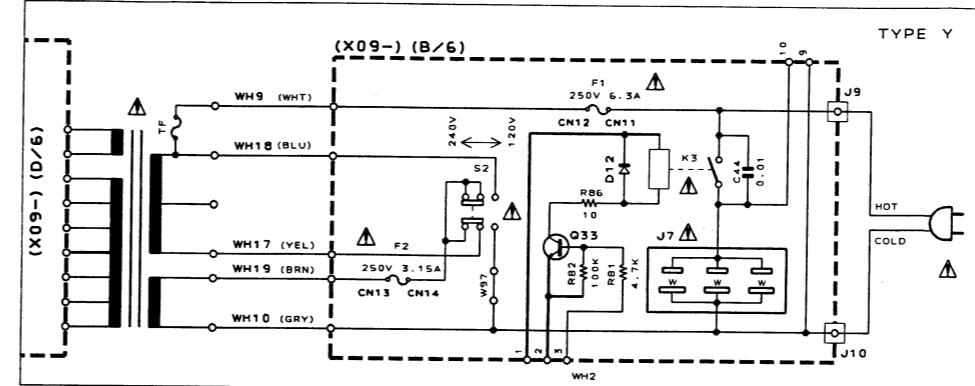
Die angegebenen Gleichsp hochohmigen Spannung gemessen. Dabei schwankt erschieden zwischen einzel U. geringfügig.

**CAUTION:** For continuac nents only with manufac parts list.  $\Delta$  Indicates sa risk of electric shock, leaka shall be carried out (expos the supply circuit) before t er.

SIGNAL LINE  
GND LINE  
+B LINE  
-B LINE



REF. NO.	DESTINATION			
	0-10 (K. P.)	0-21 (M)	0-71 (X)	2-91 (Y)
R13, 14	510	560	560	560
WB7, 93	YES	NO	NO	NO
S1	NO	YES	YES	YES
F1	125V 6A	250V T6 .3A	250V T3 .15A	250V 6 .3A
F2	NO	250V T3 .15A	NO	250V 3 .15A
F3, 6	125V 6A	250V T6 .3A	250V T6 .3A	250V 6 .3A
F4, 5	NO	250V T6 .3A	250V T6 .3A	250V 6 .3A
F7, 8	250V 2A	250V T2A	250V T2A	250V 2A
CN17, 18	NO	YES	YES	YES
CN19, 20				



DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance sans signal d'entrée. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

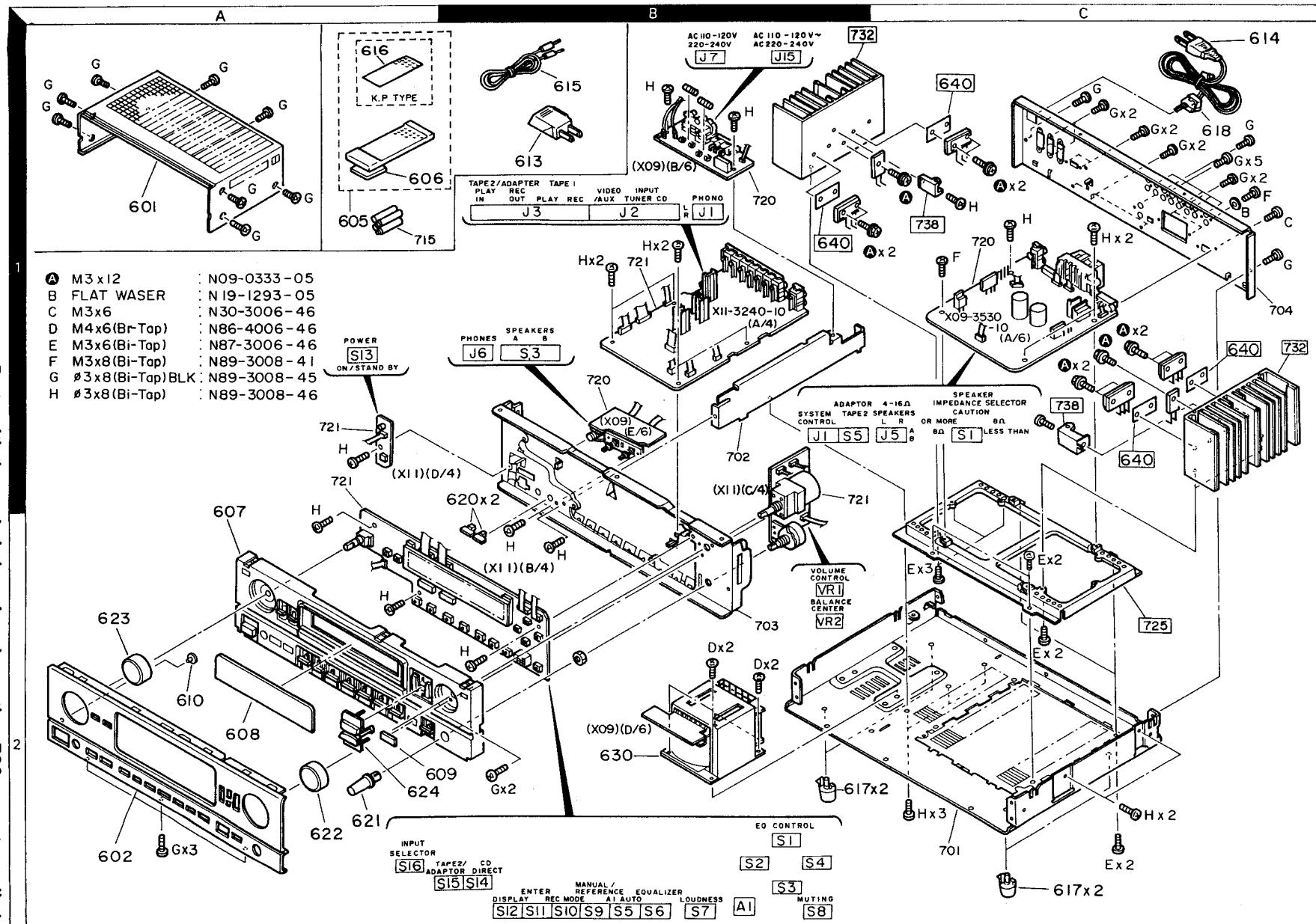
Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser ohne Eingangssignal gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.



## EXPLODED VIEW

KA-892



Parts with the exploded numbers larger than 700 are not supplied.

KA-892

## PARTS LIST

\* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

No. 1

Ref. No.	Address	New Parts	Parts No.	Description	Desti- nation	Re- marks
参照番号	位置	新	部品番号	部品名／規格	仕向	備考
<b>KA-892 (SINGAPORE MADE)</b>						
601	1A	*	A01-2911-01	METALLIC CABINET		
602	2A	*	A60-0164-02	PANEL	P	
605	1A	*	A70-0590-05	REMOTE CONTROLLER ASSY	YMX	
605	1A	*	A70-0591-05	REMOTE CONTROLLER ASSY		
606	1A	*	A09-0086-08	BATTERY COVER (A70-0590-05)	P	
606	1A	*	A09-0112-08	BATTERY COVER (A70-0591-05)	YMX	
607	2A	*	B01-0484-01	PANEL ESCUTCHEON		
608	2A	*	B03-2760-03	DRESSING PLATE FRONT GLASS		
609	2A	*	B03-2763-04	DRESSING PLATE OPTIC RECEIVING		
610	2A	*	B19-1518-04	LIGHTING BOARD		
-			B46-0092-13	WARRANTY CARD	K	
-			B46-0094-03	WARRANTY CARD	Y	
-			B46-0095-03	WARRANTY CARD	Y	
-		*	B46-0096-33	WARRANTY CARD	X	
-		*	B46-0121-13	WARRANTY CARD	P	
-		*	B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-		*	B60-0708-00	INSTRUCTION MANUAL (ENGLISH)		
-		*	B60-0709-00	INSTRUCTION MANUAL (FRENCH)	P	
-		*	B60-0710-00	INSTRUCTION MANUAL (SP, AL, CH)	M	
△ 612	2C		E03-0114-05	AC OUTLET	X	
△ 613	1B		E03-0115-05	AC PLUG ADAPTER	M	
△ 614	1C		E30-0459-05	AC POWER CORD	M	
△ 614	1C		E30-0812-05	AC POWER CORD	Y	
△ 614	1C		E30-1341-05	AC POWER CORD	X	
△ 614	1C		E30-2209-05	AC POWER CORD	KP	
615	1B		E30-1392-05	CORD WITH PLUG		
616	1A		G16-0756-08	REMOTE CONTROL UNIT ENTRYSHEET	P	
-		*	H50-0214-04	ITEM CARTON CASE	KPYX	
-		*	H50-0262-04	ITEM CARTON CASE	M	
-		*	H10-5250-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-5251-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H25-0223-04	PROTECTION BAG (750X350X0.03)		
-		*	H25-0232-04	PROTECTION BAG (235X350X0.03)		
617	2B, 2C		J02-1013-05	FOOT		
618	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
620	2B		K27-2014-04	KNOB SPEAKER		
621	2A		K29-3911-04	KNOB BALANCE		
622	2A	*	K29-4341-04	KNOB VOLUME CONTROL		
623	2A	*	K29-4342-04	KNOB INPUT SELECTOR		
624	2A	*	K29-4343-04	KNOB EQ CONTROL		
△ 630	2B	*	L07-0450-05	POWER TRANSFORMER		
△ 630	2B	*	L07-0452-05			
△ 630	2B	*	L07-0453-05	POWER TRANSFORMER		
B	1C		N19-1293-05	FLAT WASHER	GND	
C	1C		N30-3006-46	PAN HEAD MACHIN SCREW		
D	2B		N86-4006-46	BINDING HEAD TAPITTE SCREW		
E	2C		N87-3006-46	BRAZIER HEAD TAPITTE SCREW		
F	1C		N89-3008-41	BINDING HEAD TAPITTE SCREW GND		

L:Scandinavia  
Y:PX(Far East, Hawaii)  
Y:AAFES(Europe)K:USA  
T:England  
X:AustraliaP:Canada  
E:Europe  
McOther AreasJ: Japan made  
S: Singapore made

△ indicates safety critical components.

\* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

No. 2

Ref. No.	Address	New Parts	Parts No.	Description	Desti- nation	Re- marks
参照番号	位置	新	部品番号	部品名／規格	仕向	備考
<b>KA-892 (JAPAN MADE)</b>						
G	1A, 1C		N89-3008-45	BINDING HEAD TAPITTE SCREW		
H	1B, 2B		N89-3008-46	BINDING HEAD TAPITTE SCREW		
601	1A	*	A01-2911-01	METALLIC CABINET		
602	2A	*	A60-0164-02	PANEL		
605	1A	*	A70-0591-05	REMOTE CONTROLLER ASSY		
606	1A	*	A09-0112-08	BATTERY COVER		
607	2A	*	B01-0484-01	PANEL ESCUTCHEON		
608	2A	*	B03-2760-03	DRESSING PLATE FRONT GLASS		
609	2A	*	B03-2763-04	DRESSING PLATE OPTIC RECEIVING		
610	2A	*	B19-1518-04	LIGHTING BOARD		
-			B46-0092-13	WARRANTY CARD	K	
-			B46-0094-03	WARRANTY CARD	Y	
-			B46-0095-03	WARRANTY CARD	Y	
-		*	B46-0096-33	WARRANTY CARD	X	
-		*	B46-0121-13	WARRANTY CARD	P	
-		*	B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-		*	B60-0708-00	INSTRUCTION MANUAL (ENGLISH)		
-		*	B60-0709-00	INSTRUCTION MANUAL (FRENCH)	P	
-		*	B60-0710-00	INSTRUCTION MANUAL (SP, AL, CH)	M	
△ 613	1B		E03-0115-05	AC PLUG ADAPTER		
△ 614	1C		E30-0459-05	AC POWER CORD		
△ 614	1C		E30-0812-05	AC POWER CORD		
△ 614	1C		E30-1341-05	AC POWER CORD		
△ 614	1C		E30-2209-05	AC POWER CORD	KP	
615	1B		E30-1392-05	CORD WITH PLUG		
616	1A		G16-0756-08	REMOTE CONTROL UNIT ENTRYSHEET	P	
-		*	H50-0214-04	ITEM CARTON CASE	KPYX	
-		*	H50-0262-04	ITEM CARTON CASE	M	
-		*	H10-5250-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-5251-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H25-0223-04	PROTECTION BAG (750X350X0.03)		
-		*	H25-0232-04	PROTECTION BAG (235X350X0.03)		
617	2B, 2C		J02-1013-05	FOOT		
618	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
620	2B		K27-2014-04	KNOB SPEAKER		
621	2A		K29-3911-04	KNOB BALANCE		
622	2A	*	K29-4341-04	KNOB VOLUME CONTROL		
623	2A	*	K29-4342-04	KNOB INPUT SELECTOR		
624	2A	*	K29-4343-04	KNOB EQ CONTROL		
△ 630	2B	*	L07-0450-05	POWER TRANSFORMER		
△ 630	2B	*	L07-0452-05			
△ 630	2B	*	L07-0453-05	POWER TRANSFORMER		
G	1A, 1C		N89-3008-45	BINDING HEAD TAPITTE SCREW		
H	1B, 2B		N89-3008-46	BINDING HEAD TAPITTE SCREW		
<b>AUDIO UNIT (X09-3530-10: K, P 0-21: M (J), 0-22: M (S), 0-71: X, 2-91: Y)</b>						
C1	, 2		CE04KW1V100M	ELECTRO	10UF	35WV
C1	, 2		CE04LW1V100M	ELECTRO	10UF	35WV
C3	, 4		CC45FSL1H121J	CERAMIC	120PF	J
C7	, 8		CC45FSL1H030C	CERAMIC	3.0PF	C
C9	, 10		CE04KW1A470M	ELECTRO	47UF	10WV
C9	, 10		CE04LW1A470M	ELECTRO	47UF	10WV
C11	, 12		CC45FSL1H181J	CERAMIC	180PF	J
C15	, 16		CC45FSL2H390J	CERAMIC	39PF	J
C17	, 18		CC45FSL1H221J	CERAMIC	220PF	J
C19	, 20		CE04HW1H010M	NP-ELEC	1.0UF	50WV
C21	, 22		CK45FF1H103Z	CERAMIC	0.010UF	Z
C23	, 24		CK92FM1H222J	MYLAR	2200PF	J
C25	, 28		CF92FV1H104J	MF	0.10UF	J
C29	, 30		CK45FF1H103Z	CERAMIC	0.010UF	Z

L:Scandinavia  
Y:PX(Far East, Hawaii)  
Y:AAFES(Europe)K:USA  
T:England  
X:AustraliaP:Canada  
E:Europe  
McOther AreasJ: Japan made  
S: Singapore made

△ indicates safety critical components.

# PARTS LIST

KA-892

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

No. 3

Ref. No.	Address	New Parts	Parts No.	Description	Desti- nation	Re- marks
参照番号	位置	新	部品番号	部品名／規格	仕向	備考
C31			CB04HW1E100M	NP-ELEC	10UF 25WV	
C32			CB04KW0J221M	ELECTRO	220UF 6.3WV	
C32			CE04LW0J221M	ELECTRO	220UF 6.3WV	
C33 , 34			CE04KW2A101M	ELECTRO	100UF 100WV	J
C33 , 34			CE04LW2A101M	ELECTRO	100UF 100WV	S
C35			CB04KW1E470M	ELECTRO	47UF 25WV	
C35			CE04LW1E470M	ELECTRO	47UF 25WV	
C36			CE04KW2A4R7M	ELECTRO	4.7UF 100WV	J
C36			CE04LW2A4R7M	ELECTRO	4.7UF 100WV	S
C37			CE04KW1H010M	ELECTRO	1.0UF 50WV	J
C37			CE04LW1H010M	ELECTRO	1.0UF 50WV	S
C38	*		CE04BW1V331M	ELECTRO	330UF 35WV	J
C38	*		CE04KW1V331M	ELECTRO	330UF 35WV	S
C39 , 40	*		C90-3448-05	ELECTRO	8200UF 83WV	J
C41 , 42			CK45FE2H103P	CERAMIC	0.010UF P	
C43			CE04KW1H470M	ELECTRO	47UF 50WV	J
C43			CE04LW1H470M	ELECTRO	47UF 50WV	S
C44			C91-0647-05	CERAMIC	0.01UF P	
C46 , 47			CC45FSL1H101J	CERAMIC	100PF J	
C48			CE04KW1A101M	ELECTRO	100UF 10WV	J
C49			CE04KW1A470M	ELECTRO	47UF 10WV	S
C49			CE04LW1A470M	ELECTRO	47UF 10WV	S
J1			E11-0188-05	MINIATURE PHONE JACK SYNCRO		
J2 - 4			E03-0108-05	AC OUTLET		M
J5		*	E20-0823-05	LOCK TERMINAL BOARD SPEAKER		
J6		*	E11-0207-05	PHONE JACK HEAD PHONE		
△ J7		*	E03-0093-05	AC OUTLET	KPY	
640	1B, 1C		F20-1285-05	INSULATING BOARD FINAL TR		
△ F1			F05-3121-05	FUSE (SEMKO) (250V T3.15A)	X	
△ F1			F05-6029-05	FUSE (UL) (250V T3.15A)	KP	
△ F1			F05-6321-05	FUSE (SEMKO) (250V T6.3A)	M	
△ F1			F05-6324-05	FUSE (250V 6.3A)	Y	
△ F2			F05-3121-05	FUSE (SEMKO) (250V T3.15A)	M	
△ F2			F05-3123-05	FUSE (UL) (250V 3.15A)	Y	
△ F3			F05-6029-05	FUSE (UL) (250V T3.15A)	KP	
△ F3 - 6			F05-6321-05	FUSE (SEMKO) (250V T6.3A)	MX	
△ F3 - 6			F05-6324-05	FUSE (250V 6.3A)	Y	
△ F6			F05-6029-05	FUSE (UL) (250V 2A)	KP	
F7 , 8			F04-2025-05	FUSE (UL) (250V 2A)	KP	
△ F7 , 8			F04-2026-05	FUSE (250V 2A)	Y	
△ F7 , 8			F06-2021-05	FUSE (SEMKO) (250V T2A)	MX	
CN11-26			J13-0075-05	FUSE CLIP	YM	
CN11, 12			J13-0075-05	FUSE CLIP	KPX	
CN15-26			J13-0075-05	FUSE CLIP	X	
CN15, 16			J13-0075-05	FUSE CLIP	KP	
CN21-26			J13-0075-05	FUSE CLIP	KP	
L1 , 2			L39-0085-05	PHASE-COMPENSATION COIL		
A	1B, 1C		N09-0333-05	TAPPING SCREW (3X12)		
H	1C		N89-3008-46	BINDING HEAD TAPTRITE SCREW		
CP1 , 2			R90-0826-05	MULTI-COMP 0.22X2 J 5W		
R15 , 16			RD14NB2E181J	RD 180 J 1/4W		
R19 , 20			RD14NB2E332J	RD 3.3K J 1/4W		

Scandinavia  
Y:PX(Far East, Hawaii)  
Y:AAFES(Europe)

USA  
T:England  
X:Australia

Canada  
E:Europe

Mc:Other Areas

J: Japan made  
S: Singapore made

△ indicates safety critical components.

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

No. 4

Ref. No.	Address	New Parts	Parts No.	Description	Desti- nation	Re- marks
参照番号	位置	新	部品番号	部品名／規格	仕向	備考
R21 -24			RD14NB2E221J	RD 220 J 1/4W		
R29 -32			RD14NB2E222J	RD 22 J 1/4W		
R33 -36			RD14NB2E331J	RD 330 J 1/4W		
R37 -40			RD14NB2E2R2J	RD 2.2 J 1/4W		
R43 , 44			RS14KB30100J	FL-PROOF RS 10 J 2W		
R61 , 62			RD14NB2B5R6J	RD 5.6 J 1/4W		
R69			RD14NB2E101J	RD 100 J 1/4W		
R77 , 78			RD14NB2E100J	RD 10 J 1/4W		
R79 , 80	*		RS14KB3D561J	FL-PROOF RS 560 J 2W		
R85	*		RD14NB2E8R2J	RD 8.2 J 1/4W		
VR1 , 2			R12-1616-05	TRIMMING POT.(1K) BIAS		
K1			SS1-2078-05	MAGNETIC RELAY		
K2		*	S76-0016-05	MAGNETIC RELAY		
K3		*	S76-0017-05	MAGNETIC RELAY		
K4		*	SS1-1053-05	MAGNETIC RELAY		
K5		*	S31-2136-05	SLIDE SWITCH IMPEDANCE SELECT	YMX	
S1			S31-2131-05	SLIDE SWITCH VOLTAGE SELECT	Y	
S2			S42-2163-05	MULTIPLE PUSH SWITCH SPEAKER		
S3			S31-2322-05	SLIDE SWITCH VOLTAGE SELECT	M	
S4			S31-2094-05	SLIDE SWITCH (ADAPTOR/TAPE2)		
D1 - 6			HSS104A	DIODE		
D1 - 6			1SS131	DIODE		
D7			HZ54.7N(B2)	ZENER DIODE		
D7			R04.7B5(B2)	ZENER DIODE		
D8 , 9			HSS104A	DIODE		
D8 , 9			1SS131	DIODE		
D10			DSS8A20F03	DIODE		
D10			RBV-602LFA	DIODE		
D11			S5688B	DIODE		
D11			1SR139-100	DIODE		
D12 - 16			HSS104A	DIODE		
D12 - 16			1SS131	DIODE		
D18 , 19			HSS104A	DIODE		
D18 , 19			1SS131	DIODE		
Q1 - 4			2SA992(F,E)	TRANSISTOR		
Q5 - 8			2SC2632A	TRANSISTOR		
Q9 , 10			2SA992(F,E)	TRANSISTOR		
Q11 , 12			2SC4137(V,W)	TRANSISTOR		
Q13 , 14			2SA1535(Q,R,S)	TRANSISTOR		
Q15 , 16			2SC3944(Q,R,S)	TRANSISTOR		
Q17 , 18			2SA1215	TRANSISTOR		
Q19 , 20			2SC2921	TRANSISTOR		
Q21 , 22			2SC2631(R,S)	TRANSISTOR		
Q23 , 24			2SC2878(B)	TRANSISTOR		
Q25			2SA1048(Y,GR)	TRANSISTOR		
Q25			2SA1175(F,E)	TRANSISTOR	J	
Q25			2SA1309A(Q,R)	TRANSISTOR	S	
Q25			2SA933S(Q,R)	TRANSISTOR	J	
Q26 - 28			2SC1740S(Q,R)	TRANSISTOR	S	
Q26 - 28			2SC2458(Y,GR)	TRANSISTOR	J	
Q26 - 28			2SC2785(F,E)	TRANSISTOR	S	
Q26 - 28			2SC3311A(Q,R)	TRANSISTOR	J	
Q29			2SA1048(Y,GR)	TRANSISTOR	J	
Q29			2SA1175(F,E)	TRANSISTOR	S	

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## PARTS LIST

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No. 5

Ref. No.	Address	New Parts	Parts No.	Description	Desti- nation 向	Re- marks 備考
参照番号	位置	新	部品番号	部品名／規格	仕	向
Q29			2SA1309A(Q, R)	TRANSISTOR		
Q29			2SA933S(Q, R)	TRANSISTOR		
Q30			2SA1123(R, S)	TRANSISTOR		
Q31 -33			2SC2003(L, K)	TRANSISTOR		

## CONTROL UNIT (X11-3240-10: K, P, Y, M (J), X, 0-21: M (S))

D39			B30-I291-05	LED(LN21CPSLX(V)-(TA4))		
C1 ,2			CE04KW1V100M	ELECTRO 10UF 35WV		
C1 ,2			CE04LW1V100M	ELECTRO 10UF 35WV		
C3 ,4			CC45FSL1H101J	CERAMIC 100PF J		
C7 ,8			CE04KW1A101M	ELECTRO 100UF 10WV		
C7 ,8			CE04KW1A101M	ELECTRO 100UF 10WV		
C9 ,10			CQ92FM1H123J	MYLAR 0.012UF J		
C11 ,12			CQ92FM1H332J	MYLAR 3300PF J		
C13 ,16			CE04KW1V100M	ELECTRO 10UF 35WV		
C13 ,16			CE04LW1V100M	ELECTRO 10UF 35WV		
C17 ,18			CC45FSL1H101J	CERAMIC 100PF J		
C19 ,20			CE04KW1V100M	ELECTRO 10UF 35WV		
C19 ,20			CE04LW1V100M	ELECTRO 10UF 35WV		
C21 ,22			CC45FSL1H101J	CERAMIC 100PF J		
C23 ,28			CE04KW1V100M	ELECTRO 10UF 35WV		
C23 ,28			CE04LW1V100M	ELECTRO 10UF 35WV		
C29 ,30			CC45FSL1H101J	CERAMIC 100PF J		
C31 ,36			CE04KW1V100M	ELECTRO 10UF 35WV		
C31 ,36			CE04LW1V100M	ELECTRO 10UF 35WV		
C37 ,38			CK45FB1H471K	CERAMIC 470PF K		
C39 ,40			CC45FSL1H101J	CERAMIC 100PF J		
C41 ,42			CF92FV1H124J	MF 0.12UF J		
C43 ,44			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C43 ,44			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C45 ,46			CF92FV1H473J	MF 0.047UF J		
C47 ,48			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C47 ,48			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C49 ,50			CQ92FM1H183J	MYLAR 0.018UF J		
C51 ,52			CE04KW1H3R3M	ELECTRO 0.33UF 50WV		
C51 ,52			CE04LW1H3R3M	ELECTRO 0.33UF 50WV		
C53 ,54			CQ92FM1H822J	MYLAR 8200PF J		
C55 ,56			CF92FV1H124J	MF 0.12UF J		
C57 ,58			CQ92FM1H272J	MYLAR 2700PF J		
C59 ,60			CF92FV1H563J	MF 0.056UF J		
C61 ,62			CQ92FM1H152J	MYLAR 1500PF J		
C63 ,64			CQ92FM1H183J	MYLAR 0.018UF J		
C65 ,66			CK45FB1H471K	CERAMIC 470PF K		
C67 ,68			CQ92FM1H822J	MYLAR 8200PF J		
C69 ,70			CF92FV1H473J	MF 0.047UF J		
C71 ,72			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C71 ,72			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C73 ,76			CE04KW1V100M	ELECTRO 10UF 35WV		
C73 ,76			CE04LW1V100M	ELECTRO 10UF 35WV		
C100			CK45FB1H103Z	CERAMIC 0.010UF Z		
C101,102			CE04KW1E470M	ELECTRO 47UF 25WV		
C101,102			CE04LW1E470M	ELECTRO 47UF 25WV		
C105,106			CF92FV1H104J	MF 0.10UF J		
C107,109			CK45FB1H102K	CERAMIC 1000PF K		
C110,111			CF92FV1H104J	MF 0.10UF J		

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No. 6

Ref. No.	Address	New Parts	Parts No.	Description	Desti- nation 向	Re- marks 備考
参照番号	位置	新	部品番号	部品名／規格	仕	向
C112-114			CK45FB1H102K	CERAMIC 1000PF	K	
C115,116			CE04KW1E470M	ELECTRO 47UF	25WV	
C115,116			CE04LW1E470M	ELECTRO 47UF	25WV	
C117			CE04KW1E100M	NP-ELEC 10UF	25WV	
C118-123			CE04KW1E470M	ELECTRO 47UF	25WV	
C118-123			CE04LW1E470M	ELECTRO 47UF	25WV	
C125,126			CE04KW1V102M	ELECTRO 1000UF	35WV	
C125,126			CE04LW1V102M	ELECTRO 1000UF	35WV	
C127-130			CF92FV1H104J	MF 0.10UF	J	
C131,132			CE04KW1E101M	ELECTRO 100UF	25WV	
C131,132			CE04LW1E101M	ELECTRO 100UF	25WV	
C133,134			CE04LW1E101M	ELECTRO 100UF	25WV	
C135			CE04KW1V101M	ELECTRO 100UF	10WV	
C136,137			CK45FV1H103Z	CERAMIC 0.010UF	Z	
C138			CE04LW1E470M	ELECTRO 47UF	25WV	
C138			CE04LW1E470M	ELECTRO 47UF	25WV	
C139,140			CE04KW1V100M	ELECTRO 10UF	35WV	
C139,140			CE04LW1V100M	ELECTRO 10UF	35WV	
C141			CE04KW1H101M	ELECTRO 1.0UF	50WV	
C141			CE04LW1H101M	ELECTRO 1.0UF	50WV	
C143			CE04KW0J222M	ELECTRO 2200UF	6.3WV	
C143			CE04LW0J222M	ELECTRO 2200UF	6.3WV	
C144			CE04KW1V100M	ELECTRO 10UF	35WV	
C144			CE04LW1V100M	ELECTRO 10UF	35WV	
C145,146			CE04KW1H101M	ELECTRO 1.0UF	50WV	
C145,146			CE04LW1H101M	ELECTRO 1.0UF	50WV	
C147,148			CE04KW1A101M	ELECTRO 100UF	10WV	
C149,150			CF92FV1H102J	MYLAR 1000PF	J	
C155,156			C91-0085-05	CERAMIC 0.022UF	N	
C157			CE04KW1H101M	ELECTRO 1.0UF	50WV	
C158			CK45FV1H103Z	CERAMIC 0.010UF	Z	
C160			CE04KW1E221M	ELECTRO 2200UF	25WV	
C160			CE04LW1E221M	ELECTRO 2200UF	25WV	
C161			CE04KW1V100M	ELECTRO 10UF	35WV	
C161			CE04LW1V100M	ELECTRO 10UF	35WV	
C162			CE04KW1H100M	ELECTRO 10UF	50WV	
C162			CE04LW1H100M	ELECTRO 10UF	50WV	
C163			CE04KW1J100M	ELECTRO 10UF	63WV	
C163			CE04LW1J100M	ELECTRO 10UF	63WV	
C164,165			CE04KW1E100M	NP-ELEC 10UF	25WV	
C166,167			C91-0085-05	CERAMIC 0.022UF	N	
J1			E13-0249-05	PHONO JACK	PHONO	
J1			E13-0259-05	PHONO JACK	PHONO	
J2			E13-0633-05	PHONO JACK	CD, TUNER, AUX/VIDEO	
J2			E13-0637-05	PHONO JACK	CD, TUNER, AUX/VIDEO	
J3			E13-0823-05	PHONO JACK	TAPE1, TAPE2	
J3			E13-0825-05	PHONO JACK	TAPE1, TAPE2	
L1 ,2			L40-1001-17	SMALL FIXED INDUCTOR	(10UH, K)	
X1			L78-0244-05	RESONATOR		
X2			L78-0267-05	RESONATOR		
H		1B	N89-3008-46	BINDING HEAD	TAPTITE SCREW	

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KA-892

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参照番号	位置	新	部品番号	部品名 / 規格	仕向	備考
CP1 ,2			R90-0491-05	MULTI-COMP 820KX7 J 1/6W		
CP3 ,4			R90-0482-05	MULTI-COMP 100KX4 J 1/6W		
CP5			R90-0855-05	MULTI-COMP 100KX5 J 1/6W		
CP6			R90-0850-05	MULTI-COMP 100KX3 J 1/6W		
R115,116			RD14GB2E1R0J	FL-PROOF RD 1.0 J 1/4W		
R185			RS14KB3A152J	FL-PROOF RS 1.5K J 1W		
R215,216			RS14KB3A331J	FL-PROOF RS 330 J 1W		
R256,257			RS14KB3D181J	FL-PROOF RS 180 J 2W		
R268			RS14KB3D561J	FL-PROOF RS 560 J 2W		
R273,274			RS14KB3D181J	FL-PROOF RS 180 J 2W		
VR1	*		R29-5064-05	MOTOR VR 100KB X2 VOLUME		
VR2			R01-5066-05	POTENTIOMETER 200KB BALANCE		
S1 -15			S40-1064-05	PUSH SWITCH KEY BOARD		
S16			T99-0509-05	ROTARY ENCODER		
D1 -4			S568BB	DIODE		
D1 -4			1SR139-100	DIODE		
D5 -12			HSS104	DIODE		
D5 -12			ISS133	DIODE		
D14 -18			HSS104	DIODE		
D14 -18			ISS133	DIODE		
D19 ,20			HZS6.8N(B2)	ZENER DIODE		
D19 ,20			RD6.8ES(B2)	ZENER DIODE		
D21			HZS6.2N(B2)	ZENER DIODE		
D21			RD6.2ES(B2)	ZENER DIODE		
D22			HZS4.7N(B2)	ZENER DIODE		
D22			RD4.7ES(B2)	ZENER DIODE		
D23 ,24			HZS5.6N(B2)	ZENER DIODE		
D23 ,24			RD5.6ES(B2)	ZENER DIODE		
D25			HZS10N(B2)	ZENER DIODE		
D25			RD10ES(B2)	ZENER DIODE		
D26 ,27			HSS104	DIODE		
D26 ,27			ISS133	DIODE		
D28 ,29			HSS104A	DIODE		
D28 ,29			ISS131	DIODE		
D30 -36			HSS104	DIODE		
D30 -36			ISS133	DIODE		
D38			HSS104	DIODE		
D38			ISS133	DIODE		
D40			HZS5.6N(B2)	ZENER DIODE		
D40			RD5.6ES(B2)	ZENER DIODE		
D41 -43			HSS104	DIODE		
D41 -43			ISS133	DIODE		
D44			HZS6.2N(B2)	ZENER DIODE		
D44			RD6.2ES(B2)	ZENER DIODE		
ED1	*		FIP13AW22Y	FLUORESCENT INDICATOR TUBE		
IC1	*		BA15218-DX	IC(OP AMP X2)		
IC2			TC9163N	IC(BILATERAL SWITCH X16)		
IC3			TC9162N	IC(ANALOG SWITCH ARRAY)		
IC4 -6			BA15218	IC(OP AMP X2)		
IC4 -6			NJM4565D	IC(OP AMP X2)		
IC7	*		BA15218-DX	IC(OP AMP X2)		
IC7			NJM4565D-D	IC(OP AMP X2)		
IC8 ,9			M5229P	IC(70CH GRAPHIC EQUALIZER)		
IC10			NJU7305L	IC(ELECTRIC VOLUME)		

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No. 8

Ref. No.	Address	New Parts	Parts No.	Description	Desti- nation	Re- marks
参照番号	位置	新	部品番号	部品名 / 規格	仕向	備考
IC11		*	TA8409S	IC(MOTOR CONTROL)		
IC12		*	CXP50112-373Q	IC(MICROPROCESSOR)		
IC13			PST529D	IC(SYSTEM RESET)		
IC14,15		*	L81294	IC(6CH DARLINGTON DRIVER)		
IC16,17		*	XR-1091ECP	IC(EQUALIZER FILTER)		
IC18		*	TC4051BP	IC(8CH MPX/ DE-MPX)		
IC19		*	M50946-133SP	IC(MICROPROCESSOR)		
IC20			TA7815S	IC(VOLTAGE REGULATOR/ +15V)		
IC20			UPC7815HF	IC(VOLTAGE REGULATOR/ +15V)		
IC21			UPC7915HF	IC(VOLTAGE REGULATOR/ -15V)		
IC22			TA7805S	IC(VOLTAGE REGULATOR/ +5V)		
IC22			UPC7805HF	IC(VOLTAGE REGULATOR/ +5V)		
Q1 ,2			2SC2878(A,B)	TRANSISTOR		
Q3			2SA1175(F,E)	TRANSISTOR		
Q3			2SA9335(Q,R)	TRANSISTOR		
Q4 ,5			2SC1740S(Q,R)	TRANSISTOR		
Q4 ,5			2SC2785(F,E)	TRANSISTOR		
Q6			2SB941(Q,P)	TRANSISTOR		
Q7			2SC1740S(Q,R)	TRANSISTOR		
Q7			2SC2785(F,E)	TRANSISTOR		
A1			W02-1043-05	OPTIC RECEIVING MODULE		
A1			W02-1046-05	OPTIC RECEIVING MODULE		

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# KA-892

## SPECIFICATIONS

(For U.S.A. and Canada)

### Rated Power Output

125 watts per channel minimum RMS, both channels driven, at 8 Ω from 20 Hz to 20,000 Hz with no more than 0.03% total harmonic distortion. (FTC)

### Total Harmonic Distortion LINE input to SPEAKER output

20 Hz to 20,000 Hz ..... 0.03% at rated power into 8 Ω

### Frequency Response

10 Hz to 50 kHz, +0 dB, -3 dB

### Input Sensitivity/Impedance

Phono ..... 2.5 mV/47 kΩ

Tuner/Tape/CD/VIDEO ..... 200 mV/47 kΩ

### Signal-to-noise Ratio (IHF-A)

Phono ..... 75 dB for 2.5 mV input

Tuner/Tape/CD/VIDEO ..... 100 dB

### Phono Maximum Input Level

100 mV, T.H.D. 0.5% at 1 kHz

### Output Level/Impedance

Tape REC (Pin) ..... 200 mV/3.3 kΩ

### Phono Frequency Response

RIAA standard curve ±0.5 dB (20 Hz to 20,000 Hz)

### Graphic equalizer control

(60 Hz, 150 Hz, 400 Hz, 1 kHz, 2.4 kHz,

6 kHz, 15 kHz) ..... ±10 dB

### Loudness Control

+8 dB at 100 Hz (at -30 dB VOLUME Level)

### General

#### Power Consumption

2.8 A

#### AC outlets

SWITCHED ..... 3; (Total 100 W, 0.8 A max.)

#### Dimensions

W: 440 mm (17-5/6")

H: 133 mm ( 5-1/4")

D: 281 mm (11-1/16")

#### Weight (Net)

9.5 kg (20.9 lb)

### Note:

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

### Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

## KENWOOD CORPORATION

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### KENWOOD LINEAR S.p.A.

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